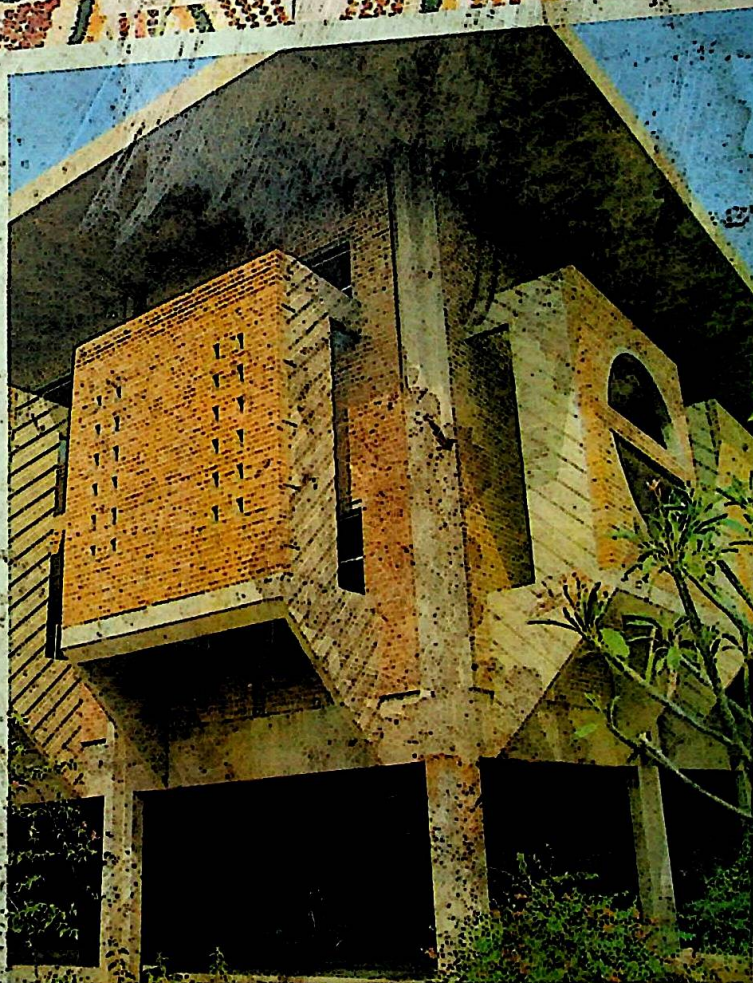




SILVER JUBILEE YEAR

25th ANNUAL REPORT 1994-95



JAWAHARLAL NEHRU UNIVERSITY

NEW DELHI - 110 067

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ANNEXURE

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JAWAHARLAL NEHRU UNIVERSITY

SILVER JUBILEE YEAR

25th ANNUAL REPORT 1994-95



**Jawaharlal Nehru University
New Delhi-110 067**

SILVER JUBILEE YEAR

25th
ANNUAL
REPORT
1994-95

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Chapter-1

AN OVERVIEW

Set up by an Act of Parliament in 1969, the Jawaharlal Nehru University completed 25 years of its fruitful existence in November, 1994. The year-long programme of Silver Jubilee Celebrations was inaugurated by JNU Chancellor, Shri P.N. Haksar, on 14th November, 1994. In his message the President of India, Dr. Shankar Dayal Sharma, as Visitor of the University, hailed the multi-disciplinary approach of the University and expressed the hope that the University will continue to produce socially conscious students. Dr. Sharma described the University as a testimony to secularism, social justice and national integration. He observed that the academic activities of the University have been socially relevant and the University has been able to evolve its ethos over the years.

The Silver Jubilee Celebrations consisted of seminars, symposia, panel discussions, lectures, workshops and cultural programmes organised by various Schools/Centres on the campus. Some of the programmes have already been held and some are underway. A number of research students have, on their own initiative, started a documentation project on JNU in the last 25 years.

During the period under review, 146 research scholars were declared successful for the award of the Ph.D. degrees, 276 for the award of M.Phil. degrees, 14 for M.Tech. degrees, 64 for M.Sc./MCA degrees, 439 for MA/MCH, 756 for BA/BA (Hons)/B.Sc., 433 for B.Tech. and 60 for Diplomas/Certificates.

There were 3610 students on the rolls of the University registered for various full-time programmes of study as on 1.9.1994 – research programmes like Ph.D/M.Phil MCH/M.Tech.: 2091, BA/MA, M.Sc./MCA : 1519 and part-time courses like COP/DOP : 280.

In the 1994-95 academic year, 1230 (762 Male and 468 Female) candidates were admitted for pursuing various programmes of study at the University on the basis of an All-India Entrance Examination conducted in 35 centres throughout the country. Of these, 507 were admitted to the M.Phil/Ph.D/MCH/M.Tech. programmes; the equal number to Masters' programme and 216 to the BA (Hons) programme.

Of the total 1230 candidates who joined, 854 came from the lower and the middle income groups where parents income was less than Rs.6,000/-p.m. and 376 from the higher income group with income over Rs.6,000/-p.m. Those who came from rural and urban areas were 396 and 834 respectively. Only 388 candidates had their schooling in public schools and 842 came from municipal and non-public schools.

A total of 292 students joined various part-time programmes of study in the School of Languages including 29 belonging to SC/ST and one to physically handicapped categories. As in the past, the University also organised the combined entrance examination for admission to the M.Sc. and M.Sc. Bio-technology for 15 participating universities.

A special feature during this year's admissions was that the University was able to give 18.38% representation to the SC/ST candidates as compared to 17.87% in the previous year. The ratio of reservation for SC/ST candidates is constantly on increase in the University. 74 foreign students were also admitted during the year. In addition, 16 candidates who could not register last year by the deadline on account of late declaration of results by their respective institutions, were also admitted this year on the recommendations of the respective Schools/Centres.

A significant step which the University took during the year was to give weightage to the OBC candidates desirous of getting admission for various programmes of study at the University in the Entrance Examination from the academic session 1995-96. The weightage did not exceed 5 deprivation points in the case of male OBC candidates and 10 points in the case of female OBC candidates. Income tax payers and those belonging to 'creamy layers' were not eligible for this concession. The University identified 233 specific districts by levels of development in 21 States and the Union Territory of Dadra and Nagar Haveli for this purpose. Lists of such districts were prepared on the parameters of literacy rate, proportion of non-agricultural workers and agricultural productivity. The deprivation points depended on the level of development of the areas from which the candidates got their qualifying degrees.

The following table brings out the number of students who took advantage of this policy:

Table

Programme of Study	Number of OBC Candidates
M.Phil./Ph.D.	85
M.A./M.Sc./MCA	127
B.A.	82
Total	294

The University also decided to introduce a new two years' Master's Programme in Economics (International) from 1995-96 with funds from Ford Foundation and some supplementation from the University. The purpose of this new programme was to provide a sound theoretical background in the principles of Economics and to equip the students with the analytical tools for understanding the evolution of the world economy. Special emphasis was placed on global issues like environment, technology development and transfer and information economics. This programme was introduced in the International Trade and Development Division which is a part of the Centre for Diplomacy, International Law and Economics at SIS.

To meet the growing demand for Indian experts with a sound knowledge of Korean language, the University decided to start a three-year degree course in Korean language from the academic session beginning July '95, upgrading its certificate courses.

The Centre for the Study of Regional Development in the School of Social Sciences was able to receive UGC support to the tune of over Rs.39 lakh for teaching and research in Geography under DSA programme for a period of 5 years. The Centre of Economic Studies and Planning (CESP) in the same School was selected for assistance under the second phase of the DSA programme of the UGC. The Centre which was chosen by the UGC for assistance towards the development of a programme of Environmental Studies in Economics, has got financial assistance for setting up computing facilities for the faculty and for the purchase of books and furniture. The JNU Economics Library building which is coming up with funds provided by the EXIM Bank is likely to be completed soon. It will house all the books on Economics which are available in the Central Library as well as those which are currently acquired under various schemes. It is expected that Planning Commission will finance the setting up of a Unit in the CESP with financial assistance of Rs.40 lakh for undertaking in-depth research in the area of planning. The details of the Memorandum of Understanding are under the process of being worked out.

A fellowship scheme in the name of the well-known Japanese statesman and economist, late Dr. Sābiro Okita, the distinguished recipient of Indira Gandhi International Prize for Peace, Disarmament and Development, was instituted for meritorious JNU students for pursuing studies/research in any of the areas of specialisation bearing on Japan or on India's relations with Japan.

The University is attempting to raise resources from the National Board of Mathematics and the Department of Science and Technology to start a new Centre of Mathematics in the School of Physical Sciences.

The University has accepted an offer from the Ministry of Human Resource Development to institute the Rajiv Gandhi Chair for Studies in Peace and Disarmament at JNU. In addition to the endowment grant of Rs.45 lakh, a lump sum grant of Rs.2 lakh will also be released for recurring research expenses. The University proposes to invite nominations from eminent persons and institutions around the world for appointment to the Chair. The Academic Council of the University has decided that an eminent scholar should be identified who is able to contribute significantly to the intellectual life and academic ambience of the University. This appointment to the Chair shall be for a period of six months to one year depending upon the scholar's availability. This Chair would be placed at the University level and the scholar thus selected would be given the option to choose his/her affiliation depending upon the project and academic discipline.

The Planning Commission endowed "Sukhamoy Chakravorty Chair in Economics" together with a Unit at the University to promote studies and research in Planning, Development and related issues. The Planning Commission has provided a grant of Rs.40 lakh for creating the endowment. Located at the Centre for Economic Studies and Planning in SSS, the Chair has been instituted to commemorate the memory of one of the most distinguished and dedicated economists of the country.

The Department of Electronics (DOE) has offered to set up satellite dish antenna on top of the nine-storey building of the Central Library, free of cost in lieu of the space provided for the dish antenna. With this, JNU will be the first University in India, except the Indian Institute of Technology, to be linked with global data base through Internet. After acquiring this facility, JNU Administration hopes to make the University self-contained Informatics Centre in itself by connecting the Schools with the Library in communication with other libraries in India as well as with other parts of the world.

The University has approved affiliation of the Nuclear Science Centre, New Delhi with the School of Physical Sciences at JNU for award of research degrees to its research students by the University.

Prof. Tapas Majumdar, a distinguished scholar and former Professor of Economics at JNU was conferred with the title of Professor Emeritus for his outstanding contribution to research and teaching at the University.

In line with University's endeavour of attracting distinguished scholars to join its faculty, the University has been following a policy of selective faculty recruitment to fill up critical gaps and/or for strengthening faculty expertise to be able to cope up with the on-going teaching and research programmes.

The University, through a number of Selection Committees constituted in terms of Statutes, for various disciplines/areas, has succeeded in attracting some of the highly distinguished scholars who hold doctoral degrees and have post-doctoral teaching/research experience in prestigious institutions in India and abroad. Some of the distinguished scholars invited during the year on the faculty of the University were - Dr. K.P. Bajpai, (University of Illinois); Dr. Subhasis Ghosh, (Ph.D., IISC, Bangalore); Prof. Surjit Man Singh, (American University, Washington); Dr. Amitabh Mattoo, (Ph.D, Oxford); Dr. Uttam K. Patti, (Ph.D, New Brunswick, with post-doctoral training in Max- Plank Institute, West Germany, Massachusetts Institute of Technology, Cambridge and Yale University); Dr. Amit S. Ray, (D.Phil, Oxford); Dr. Varun Sahni (D.Phil. Oxford) and Dr. Shivaji Lal Sondhi (Ph.D., California).

A number of Selection Committees found JNU's own distinguished teachers as the best among the applicants from within and outside, for a number of faculty positions at the level of Professors and Associate Professors. Those elevated within the system to higher positions were - Prof. M. Alam (SL), Prof. D.K. Banerjee (SES), Prof. J.S. Gandhi (SSS), Prof. Dipankar Gupta (SSS), Dr. D.N. Rao (SSS), Prof. S.F. Ratnagar (SSS), Prof. Dilbagh Singh (SSS), and Prof. C.N. Venugopal (SSS).

The University hosted the Xth General Conference of the International Association of Universities (IAU) in New Delhi in February, 1995. About 225 Heads of Universities participated in the Conference organised by a Committee working under the Chairmanship of the distinguished scientist, Prof. P.N. Srivastava, a former Vice-Chancellor of JNU. Delegates from 79 countries participated in the four-day Conference which was inaugurated by JNU Chancellor. It is the first time that the Conference was held in Asia. The theme of the Conference was 'Global Civilisation and Cultural Roots'.

The popularity of the graduates of the School of Computer & Systems Sciences is increasing. This is evident from the placement of the graduates in responsible positions in well-known national and international organisations like TCS, WIPRO, HCL, AT&T (USA) etc. Prof. C.P. Katti of the School has been given a grant by the Department of Science & Technology for the project "Numerical Solution of Two-point BVPs on Parallel Computers". JNU proposes to enhance the workstations and other computing equipment on the campus with Parallel Computers through this project. A part of this grant, to some extent, will help ease the computational facilities at the School. The computational facilities of the School were very limited in the past. However, with the following additional facilities, things are improved: the DEC AXP Alpha workstations, 2; X terminals, 2; LAN based or Ethernet Terminal server to connect existing PC to the server, Seven PC 486 based and three PC 386 systems. The School hopes to procure the following :

Increase in memory of the servers

- Servers in place of workstations currently being used as servers.
- Multimedia capability for selected workstations
- Connections to Internet through ERNET

The School of Environmental Sciences has submitted a proposal to the UGC for setting up a Centre for Environment and Sustainable Development in JNU at a cost of Rs.10 crore under the Indo-Japanese Collaboration. It envisages involvement of teachers from other Schools and Centres within JNU as well as relevant laboratories from across the country.

The faculty and the students in the School of Environmental Sciences (SES) are conducting experiments to assess the efficacy of various screens, particularly vegetation, for mitigation of noise and improving air quality and urban climate in view of the large scale population migration from rural into urban complexes leading to deterioration of air quality and noise levels.

Modernization has led to the use of electrical appliances in our daily life causing electrical fields around us. In order to arrive at a safety criteria, SES is conducting experiments simulating the commonly occurring frequency levels on biological effects of anthropogenic electropollution. Many studies at the School deal with a number of topics of relevance of environmental geo-chemistry and bio-geochemical processing at various time scale from present to Holocene times. The School is also developing research activities dealing with remote sensing techniques with special reference to ground water exploration and mineral resources, in collaboration with National Remote Sensing Agency. There is also interest in monitoring of indoor and outdoor air pollution to assess occupational exposures. The effects of a variety of toxic elements on humans and on plant and animal species of direct importance to human existence, have been the subject of study in the School at both the population and organism, as well as at the cellular and molecular levels.

Most of the studies at the School are being done through networking - involving young scientists, governmental agencies and non-governmental voluntary agencies spread all over the country. These studies being implemented are tailored to specific national needs and form part of many international research programmes of non-governmental and inter-governmental organisations with whom linkages exist.

The faculty members of the School of Physical Sciences are engaged in several collaborative research programmes with other Schools within the University, as also with many national and international universities and institutes. The students and faculty are also conducting experiments in collaboration with scientists at the Nuclear Science Centre, New Delhi, National Physical Laboratory, New Delhi, Indian Institute of Technology, Delhi, Madras & Kanpur, Inter University Centre, Indore, and Solid State Physics Laboratory, Delhi.

There are also many theoretical collaborations between faculty and scientists at the Tata Institute of Fundamental Research, Bombay, Delhi University, Saha Institute of Nuclear Physics, Calcutta, Indian Institute of Science, Bangalore, Poona University, Princeton University, USA, University of Illinois, USA, and the Institute of Theoretical Physics, Utrecht, Holland. The faculty also maintains close links with departments at a number of foreign universities e.g. Cambridge University, England, Johannes Gutenberg Universitat, Germany, Boston University, USA, University of Pennsylvania, USA, University of Toronto, Canada and Institutes e.g. Polish Academy of Sciences, Warsaw, Poland, Institute for Solid State Research, Julich, Germany and International Centre for Theoretical Physics, Trieste, (Italy). These collaborative arrangements ensure that the faculty and students at the School remain at the forefront of their respective research areas.

The School of Life Sciences has been contributing substantially, over the years, to the integrated interdisciplinary teaching and aggressive goal-oriented research activities at JNU, both in basic and applied aspects of modern biology. The faculty at the School, which is keen to develop centralised facilities for studies on neurobiology, molecular biophysics and structural biology, intends to further pursue link activities under the DSA programme to have meaningful interaction with other universities and institutions doing similar front-line work. The School also intends to compete for Centre for Advanced Studies in Life Sciences under the UGC-SAP activity.

The Centre for Biotechnology at JNU decided to introduce a pre-Ph.D programme jointly with UNIDO's International Centre for Genetic Engineering and Biotechnology, Trieste (Italy) - the only institution of its kind. Under the arrangement, students selected by ICGEB's sub-centre in India will be affiliated to JNU for Ph.D degree. The informal interaction of the Centre for Bio-technology (CBT) with several reputed Institutes has culminated in the formal recognition of the collaborative arrangement with ICGEB, Delhi and the CSIR institutes, IMTECH, Chandigarh and CIMAP, Lucknow. The faculty of the Centre has also been able to attract major grants from the funding agencies such as DBT, Ministry of Defence, ICMR and DST.

The Genetic Engineering Unit in the Centre for Bio-technology has been able to impart basic training to about 73 scientists of the country in various techniques involved in Recombinant DNA technology. This has helped many of them to get over the misconception that such "sophisticated" experiments cannot be done in India. To enable them to initiate some work in their own laboratories, the Unit provides all subsequent help in the form of advice, strains, plasmids and experimental protocol.

The University, as in the previous years, organised a series of extension lectures to acquaint the general public of the expertise available in the University. The School of International Studies organised a series of 25 lectures, entitled "Pandit Hridayanath Kunzru Memorial Lectures on International Affairs" to promote understanding of international affairs and to underscore India's role in the world among those who have had no special opportunity of studying questions and issues in international affairs and have not been exposed to any authoritative exposition of the special problems in the world affairs. These

lectures were delivered by the faculty members of the School. This is a regular feature of the School since 1967. This year the topic was "United Nations and the Changing World".

The School of Social Sciences organised Prof. Krishna Bharadwaj Memorial Lecture in March, 1995 by Prof. Bertam Schefold of the University of Frankfurt (Germany) on "The Creation of Economic Theories and History of Economic Thought: Reflection on the Work of Krishna Bharadwaj".

The Centre for the Study Regional Development, under its DSA programme, has obtained reprographic facilities for reduction and enlargement of maps etc. A 30 - seater mini-bus has also been purchased by the Centre under the DSA programme.

A Computer-aided cartography and remote sensing lab has already been established. Computer configurations include four PC/AT-486 with LAN (5 user) software, one Sekonic Plotter, one Digitizer, one mouse, one TVSE, 4 PC-AS Terminals with one MS- DOS, one HCL-UNIX, and One PC-Link. One laserjet 4 MP with 4 PPM and 600 DP has been recently acquired and installed. During the last few months' steps for the upgradation of existing 4 PC's to 386 has been initiated and accomplished.

The Centre for the Study of Social Systems, organized alongwith others, several seminars, discussions, and the XXI All India Sociological Conference from December 19 to 21, 1994. The theme of the conference was "Cultural Dimensions of Social Change". More than 700 participants and delegates attended the Conference. The Conference was a grand success. A profile of the Centre was published in the Souvenir that was brought out on this occasion. The faculty members of the Centre contributed working papers and participated in the symposia and panel discussions.

The School of Languages maintained a close collaboration with other Schools of the University by providing courses particularly for the School of International Studies and also taking courses from the School of Social Sciences and the School of Computer & Systems Sciences, to meet its need of optional courses for the under-graduate programmes. It also helps other institutions and universities of the country in running their refresher and summer programmes. It is also engaged in preparation of teaching material, text books and audio-visual material for use in the University and outside.

The Centre of East Asian Languages in the School has been bifurcated into two independent Centres -- Centre for Japanese and North East Asian Languages (CJNEAL) and Centre for Chinese and South East Asian Languages (CCSEAL).

A Memorandum of Understanding has been signed with Kieve Institute of International Relations, Republic of Ukraine providing for exchange of faculty, research scholars, literature and holding of joint seminars at the Centre for South East European Studies/SIS. The University has now approached the UGC for necessary funds for its implementation.

The faculty and students endeavoured to develop and maintain JNU as a centre of excellence during the year under report. Faculty members continued to make contributions in their areas of interest and/or specialisations. They brought out 56 books/edited volumes, contributed over 112 chapters to books and published about 250 articles in prestigious research journals both in India and abroad.

The University continued to publish four research journals, viz. *International Studies*, *Studies in History*, *Journal of School of Languages* and *Hispanic Horizon* during the year under report. The new monthly, *Campus Newsletter*, launched last year, was brought out regularly during the year.

Some faculty members of the University were honoured by various organisations during the year.

Prof. Alok Bhattacharya of School of Life Sciences has received nation's highest award in science -- the prestigious Shanti Swarup Bhatnagar Award (1994) -- for his outstanding contributions in the field of science and technology. Prof. Bhattacharya deserves special mention, since he is a product of JNU. Prof. Yogendra Singh of the School of Social Sciences was conferred the 'Swami Parmanand Award in Sociology and Social Anthropology' by the National Science Academy, New Delhi. Prof. Kedar Nath Singh of the School of Languages was conferred the prestigious Maithili Sharan Gupta Samman instituted by Madhya Pradesh Govt. for the year 1992-93.

The painstaking research undertaken by Prof. S.B. Verma of the School of Languages has resulted in the publication of the first ever Japanese-Hindi dictionary. This dictionary which contains about 10 thousands words is believed to be the first dictionary of its kind and is a significant contribution to the cultural exchange between India and Japan.

Professor H.K. Das of the Centre for Biotechnology received 'Shri Omprakash Bhasin Award for Science & Technology, 1994', Prof. Asis Datta of the School of Life Sciences was given FICCI Award for Research and Development in Life Sciences, 1994, as well as the Platinum Jubilee Lecture Award of the Indian Science Congress. Dr. R. Madhubala of the School of Life Sciences was given the Indian Scientist Award.

Dr. Neera Bhalla Sarin of the School of Life Sciences received IUBMB Indian Scientist award. Dr. B.C. Tripathy of the same School received "NASA Fellowship" of Kennedy Space Centre, Florida, USA.

Dr. H.S. Prabhakar (CEAS) of the School of International Studies received "Japan Foundation Fellowship" of the University of Tokyo and Osaka International University, Hirakata. Dr. Yogesh K. Tyagi (CSDILE) of the same School received "Stimson Fellowship" of the Henry L. Stimson Centre, Washington, DC., USA.

Mr. Prem Motwani, Centre for Japanese and North East Asian Languages of the School of Languages received the Matsushita Foundation Research Grant (Japan) for conducting field work in Japan.

Dr. Ania Loomba, (CLE) also of the same School received Mellon Fellowship, Stanford University, USA.

The Sports Officer Mrs.Damyanti Tambey was selected as Captain of the Indian Badminton Contingent for the World Masters' Games held at Brisbane (Australia) in the first week of October, 1994. In the World Masters' Game selection tournament, she won both ladies singles and doubles titles. She also won the bronze medal in Division I of Badminton in the Third World Masters' Games.

Dr.S.Y.Shah of the Adult, Continuing Education Unit at the University was chosen for the Shastri Indo-Canadian Institute Award during the year.

Faculty members were also honoured with the following awards/distinctions: Royal Society Fellowship (London), INSA-DFG Fellowship, IBRO & UNESCO Award, Wellcome Trust Fellowship, 1995 IUBMB Award, NASA Fellowship, Membership of New York Academy of Sciences, Fulbright American Research Fellowship (ARFP 1994-95) by USIA, DAAD Fellowship (Germany), European Union Fellowship, University of Manchester, (U.K.) Royal Society Fellowship (London), Stimson Fellowship (USA), Japan Foundation Fellowship, etc.

Some of the students of the University have also won accolades. Mr.Srivatsa Krishna a post-graduate from the School of International Studies topped the Civil Services Examination for 1993. He was the only non-science graduate in recent years who topped the examination. Another research scholar of SIS Mr.Sumit Sen has been awarded the Rhodes Scholarship to pursue D.Phil in International Relations at the University of Oxford. A JNU Scholar, Bajrang Behari Tewari won the first Prize for National Essay Competition on Literacy organised by the Directorate of Adult Education, Govt. of India. A Ph.D. student of the SLS, Ms.Valsala Haridas was awarded the NII Young Scientist Award at the XXI Annual meeting of the Indian Immunology Society in September'94. Another research scholar of the School of Languages Mr.Mohd Abdul Razzaque has been awarded the prestigious Jawaharlal Nehru Scholarship to pursue his research work. A Ph.D. student of the SL, Mr.B.R.Deepak was awarded Nehru Fellowship for doctoral studies in China for a period of one year. An MA final year student of the Centre for East Asian Languages/SL, Mr.Nilesh Prasad has won the first prize jointly in Quiz Competition organised by the Overseas Department of the China Radio International. Mr.K.P.Singh, a research scholar at the Centre for the Study of Social Systems/School of Social Sciences was awarded Dr.Ambedkar Overseas Fellowship sponsored by Dr.Ambedkar Foundation, Ministry of Welfare to study in the USA and the UK.

During the period under report, a number of delegations and important dignitaries visited JNU. They included : The Crown Prince of Nepal, His Royal Highness Dipendra Bikram Shah Dev, Vice-President for International Relations of Srinakharinwirot University, Thailand, Dr. Samang Hiranburana, Deputy Chairman of Russian Federation on Youth Affairs, Mr. Bunkov, Deputy Head, International Development, Mr. Nikolai Sorgashev and Chairman of the Committee on Youth Affairs, Ms. Anfinogentova Anna Petrovna, former

Secretary General, International Civil Aviation Organisation (ICAO), Dr. S.S. Sidhu, the Vice-Chancellor of Oxford University, Dr. Peter North and host of other dignitaries.

Faculty members had the opportunity to visit several universities/academic institutions both for participating in seminars, conferences/symposia and for delivering lectures during the period under review. In this process, they also visited more than 20 foreign countries and participated in various conferences/seminars and symposia both in India and abroad. They also made significant contributions to academic work by collaborating with several institutions in many ways, i.e., by accepting membership of committees, by undertaking joint research projects and by rendering expert advice.

During the year under report, progress was maintained on research projects on hand and undertaken during the year. These include both sponsored and unsponsored projects. A total number of 63 research projects were completed while 199 projects were in various stages of completion. These projects were sponsored by various national/international agencies including the Central Government.

The project grants to JNU increased from Rs.2.33 crore in 1993-94 to Rs.2.36 crore in the year under review. The grants under sponsored Chairs amounted to about Rs.87 lakh.

The funds for these projects were received from 37 national and international agencies including the Department of Bio-technology (21), Department of Science and Technology (29) Council of Scientific and Industrial Research (17), Indian Council of Social Science Research (17), University Grants Commission (13), Department of Environment (8), Indian Council of Historical Research (5), UNESCO, (1), UNICEF (1), European Economic Commission (1), and various other Councils and Agencies.

A sum of Rs.80.35 lakh (33.94%) was received from the Department of Bio-technology, over Rs.65.65 lakh (27.72%) from the Department of Science and Technology, over Rs.16.28 lakh (6.87%) from the European Economic Commission, Rs.13.14 lakh (5.55%) from Council of Scientific and Industrial Research and Rs.12.36 lakh (5.2%) from the Department of Environment. Details of funds received and spent are given in Chapter 12: University Finance.

During the year under report 63 projects including unsponsored ones were completed and 199 projects were in various stages of completion as on 12 May, 1995.

The University has been very active in promoting exchange of views on scholarly issues, as also on topical problems requiring action plans. Various Schools and Centres of the University organised a number of All-India seminars/workshops/conferences, besides several one-day seminars/lectures to which research scholars/ academicians and scientists were invited. Foreign scholars also participated in some of these Seminars.

Some of the important All-India Conferences/Seminars/ Symposia of this nature were :

1. International Conference on Mongolia;
2. US-Cyprus Conflict and Management;
3. Indo-Hungarian Round Table Conference on Experience of India and Hungary : Liberalisation of Free Economies;
4. Indo - Nepal Colloquium;
5. SAARC 2000 and Beyond;
6. XXI All India Sociological Conference on "Cultural Dimensions of Social Change";
7. First National Seminar on "World Development Report, 1993: Investment in Health - Implications for Health and Family Welfare in India" as part of the Silver Jubilee Celebrations;
8. National Seminar on "Role of the State in Higher Education"; Key-note Address by late Prof. G. Ram Reddy;
9. Round Table Conference on Tunisia;
10. National Seminar on "Tradition & Modernity : Society, Culture and Language in Meghreb Region";
11. First Conference of the Indian Congress of Asian and Pacific Studies;
12. International Conference on "Hispanism and Ibero-American Studies";
13. International Seminar on Fernando Peasso; and
14. Science & Technology and Sustainable Rural Development.

The University Library acquired 5870 volumes of books and 1034 volumes of periodicals for the on-going teaching and research work in the University and increased its collection of books and periodicals from 4,36,581 in 1993-94 to 4,43,500 volumes in 1994-95. The Library had a total of 5046 enrolled members in the year under report. In addition, some 760 scholars from other universities, research institutions/organisations availed themselves of the facilities provided by the library. Over 525 teachers from other universities attending various refresher courses organised by the Academic Staff College of the University also used the library. The library subscribed to 1034 journals and also received 200 journals by way of gift or an exchange. The total subscription bill during the year was of the order of Rs.99.1 lakh. The number of press clippings crossed the figure of 9.32 lakhs, 42000 clippings having been added during the year. The Jayenu Book Shop earned over Rs.17.49 lakh in the form of extra discount for books purchased by the library.

The JNU Academic Staff College, set up by the University Grants Commission to impart refresher courses and orientation training to college and university teachers for their academic development and growth, organised 13 refresher courses -- two each in Economics, Hindi, History, Social and Political Science and one each in Computer Application, Life Sciences and Environmental Sciences. In addition, 4 orientation courses were also organised to foster awareness among young lecturers about the principles of Education, Psychology, Philosophy, Management and also to acquaint them with recent developments in their respective disciplines.

Social Science research scholars at JNU launched a new bimonthly journal "*Socialist Reality*" in September, 1994, to enable the research scholars to express, share and participate in the process of making their work useful, productive as well as to broaden their horizon and perspective to a world view.

The University is pursuing with the Planning Commission a proposal to establish a Science Centre in the University. This Centre will provide assistance and facilities to distinguished scientists to collaborate with JNU.

A new funding arrangement is under consideration with the Department of Biotechnology for the Genetic Engineering Unit at the University. In this case the University would release one or two posts and the DBT would continue to fund the Unit till the end of IXth Plan. In the meantime the University would continue to look for and tie-up additional funds from other outside sources.

The University has instituted an endowment fund for SC/ST students out of a collection of increased rates for application forms and booklets amounting to Rs.4 lakh. The University has also set-up two special fellowships for SC/ST students at Ph.D. level to support these students. The Department of Social Welfare is funding a new hostel with a view to providing accommodation for SC/ST students.

The University Science Instrumentation Centre (USIC) completed 270 jobs which included repair/designing/fabrication.

A colourful mural was completed in the lobby of the School of Social Sciences building drawing upon the ideals of Pt.Nehru, particularly his statement about an ideal University which JNU uses as a motto. The mural designed by Mr.Shamshad Hussain, a well-known muralist of contemporary India and a recipient of Lalit Kala Academy National Award, expresses and elaborates the ideals for which Nehru stood during his life time and which the University has been endeavouring to promote right from its inception in 1969.

The students' strength in nine hostels and one Married Research Scholars' Hostel of the University stood at 2653 which included SC/ST, physically handicapped and foreign nationals. Fifty five students were accommodated in the Married Research Scholars' Hostel. The students staying in hostels actively participated in various aspects of the hostel management. A sum of Rs.59,347/- was disbursed among needy students out of the Students-Aid-Fund during the period under review.

The students actively participated in a variety of cultural and extra-curricular activities through nine clubs which have been set up to expose the students community to the world of literature, the performing art and to the flora and fauna around them. These activities included programmes of music by well-known artists, debates, talks, poetic symposia, film shows, exhibitions, street plays, educational/field trips, etc.

The Open Air thratre has been repaired and is working. The University participated in the Silk Route Expedition from Tashkent to China and Tibet.

The Music Club organised a concert of Hindustani Classical Vocal by Ustad Eltaf Husain from Afghanistan in July 1994 highlighting the impact of Indian Classical music on that of Afghanistan. The programme indicated that music does not recognise geographical boundaries. The Music Club also organised a folk song and dance competition. Festivals of Indian and foreign films were arranged during the period under report.

The UNESCO Club organised a Quiz contest while the foreign students of JNU organised an annual function and get-together during the period. A debating competition was arranged on the topic "Nehruvian Model of Economy" and winners were given prizes. The JNU Drama Club organised the play "Jis Lahore Nahin Dekhya, Woh Janmaya Hi Nahin" in March '95 as part of the Silver Jubilee Celebrations.

In addition to 600 odd NET qualified fellowship holders, there were 288 fellowship holders paid from Earmarked Special Fund in the University during the year under review. They included 91 fellowships from 18 State Governments, 59 from Indian Council of Cultural Relations (ICCR), Government of India, 41 from CSIR, 24 each from the Indian Council of Social Science Research (ICSSR) and Indian Council for Historical Research (ICHR) and 37 from the University Grants Commission. Two fellowships each were awarded by the Indian Council of Medical Research (ICMR), Indian Council of Philosophical Research (ICPR) and UGC (direct awardees), and one each by the Department of Science and Technology (DST), Indian Council of Agricultural Research (ICAR), Department of Atomic Energy, NCERT, S.J. Jindal Trust and K.K Birla Foundation.

A total sum of Rs.46.74 lakh were received from these funding agencies - with CSIR providing the highest grants (Rs.14.19 lakh), UGC (Rs.10.54 lakh), ICCR (Rs.7.60 lakh) and 18 State Governments (Rs.6.97 lakh). Grants from ICSSR stood at Rs.3.14 lakh and ICHR Rs.2.84 lakh.

The Sports Stadium was made operational. The stadium building houses the Sports Office and the stores. It has seating stairs which could easily accommodate upto 500 spectators overlooking the sports field. This field is proposed to be developed for all major outdoor games.

The University allotted 2.5 acres of land to Navodaya Vidyalaya Samiti to construct an indoor auditorium with adequate capacity to accommodate 1500 persons as well as other facilities like seminar complex, deep water wells, etc., and the same shall be available for the use of JNU.

Because of the hilly terrain of the JNU campus, the University has to make extra efforts to augment the depleting ground water resources. To identify underground water streams, pictures from the Indian Satellite were taken and the data provided by the Regional Remote Sensing Service Centre, SPOT, were interpreted to identify areas for drilling. The Central Ground Water Board of the Ministry of Water Resources is already constructing Check Dams. One of such dams in south of Paschimabad quarters is likely to be completed

by June 1996. The remaining check dams are in various stages of completion - surveys, approval etc. - with CGWB.

The work of cleaning and developing of four tube wells has been completed. The outlet of these tube wells have been connected with the underground sumps at Uttrakhand and Dakshinapuram hostels. About 40,000 litres of water is being pumped out daily from these tube wells. Cleaning and developing of two more such tube wells is planned for next year. Besides, the University engineers have also connected the tube wells with overhead tank and supply lines in the administrative block for use in the bathrooms.

The construction work of Library building for EXIM Bank is in progress. The University staff and faculty moved into the Paschimabad Housing Units and the Poorvanchal Housing. The Married Research Scholars' Hostel located in the extension wing of Mahanadi hostel was renamed as "Subansir". The South East Wing of the old building shall continue to have the name "Mahanadi".

Efforts were made to make JNU a garbage-free-campus by involving a non-governmental and non-profit making organisation (SRISHTI) who was entrusted with the work of garbage disposal. They undertook the project of removal of garbage from various dustbins/dumps located on the campus. The arrangement is working satisfactorily and efforts are on to make campus a zero garbage area with the cooperation of residents and students.

Against the revised estimates of Rs.2176.45 lakh approved by the Finance Committee for 1994/95, the UGC released only Rs.2065.04 lakh for maintenance expenditure, including fellow ships leaving a shortfall of Rs.111.41 lakh.

The University's receipts from special funds, endowments, projects, and the like, on Earmarked Fund Account, has gone up from Rs.2.7 crore in 1993/94 to Rs.5.08 crore in Revised Estimates 1994/95, mainly on account of new projects and endowments.

During the financial year 1994-95, under the Maintenance Budget, the Receipts (Actuals) and Expenditure (Actuals) were Rs.1952.95 lakh and Rs.1912.48 lakh respectively. Under the Development Budget (Plan) the corresponding figures were Rs.428.61 lakh and Rs.232.48 lakh respectively.

Eleven institutions of repute, recognised by the University for the award of degrees, had a very fruitful year. They continued to engage themselves in their respective specialised activities programmes in active collaboration with the University.

Chapter 2

THE UNIVERSITY

The University offered Ph.D. programme in 6 disciplines, M.Phil./Ph.D. in 41 disciplines. M.Sc. in 4 disciplines, Master's in Community Health, M.Tech. and MCA in one discipline each. Masters programme was offered in 18 disciplines and undergraduate in 8 foreign languages besides Certificate and Diploma courses.

PROGRAMMES OF STUDY

Through the teaching and research programmes offered by various Schools and Centres of the University and formulation of curricula for these programmes, the University endeavours to evolve policies and programmes which will make it a distinct addition to the national resources in higher education, rather than a mere quantitative expansion of the facilities already available. The University has sought to achieve these objectives within the resources available to it, both financial and physical. The programmes of study which were offered during the year under report were the following:

I. SCHOOL OF COMPUTER AND SYSTEMS SCIENCES

- i) M.Phil./Ph.D. : These programmes focus on different aspects of Computer Science.
- ii) M.Tech./Ph.D. (Computer Science and Technology): This 3-semester programme is meant to impart advance knowledge in the field of Computer Science and Technology. With the successful completion of the M.Tech. programme, candidates become eligible to register themselves for the Ph.D. programme.

iii) **Master of Computer Applications (MCA):** This 3-year programme was so designed as to provide the necessary theoretical background, as well as practical experience in Computer Applications in Science and Engineering to meet the growing manpower requirement in data processing.

II. SCHOOL OF ENVIRONMENTAL SCIENCES

The School offers the following interdisciplinary programmes:

i) **M.Phil./Ph.D.:** Research facilities were made available in four broad areas (as mentioned elsewhere in this Report).

ii) **M.Sc. in Environmental Sciences:** This 2-year programme was concerned with the major aspects of environment, with some specialization in the atmospheric, earth, pollution, and biological sciences.

III. SCHOOL OF INTERNATIONAL STUDIES

i) **M.Phil./Ph.D.:** Course work and research facilities were available in the following areas: International Politics, International Organization, Political Geography, Diplomatic Studies, International Legal Studies, International Trade and Development, Disarmament Studies, South Asian Studies, Southeast Asian and Southwest Pacific Studies, Central Asian Studies, Chinese Studies, Japanese and Korean Studies, West Asian and North African Studies, Sub-Saharan African Studies, American Studies, Latin American Studies, West European Studies, and Soviet and East European Studies.

ii) **M.A. Politics (International Studies)** was a 2-year programme which combines studies in International Affairs; Area Politics; Political Theory; Comparative Politics & Economics Development which enable the graduates to receive alround exposure in various fields of study.

IV. SCHOOL OF LANGUAGES

i) **Ph.D.** in Chinese, Japanese, Persian, and Philosophy (Modern Western Philosophy only).

ii) **M.Phil./Ph.D.** in English, French, German, Hindi, Linguistics, Russian, Spanish, and Urdu.

iii) **M.A.** in Arabic, Chinese, English, French, German, Hindi, Japanese, Linguistics, Persian, Russian, Spanish, and Urdu.

iv) **B.A. (Honours)** in Arabic, Chinese, French, German, Japanese, Persian, Russian and Spanish (with entry points both in the first year and in the second). On the completion of this programme successfully, a candidate became eligible to seek registration for M.A. in the language concerned.

v) **Part-time programmes of study in :**

- (a) Advanced Diploma in Mass Media (Urdu)
- (b) Diploma of Proficiency in Italian, Portuguese, Bahasa Indonesia, Pushtu, and Korean
- (c) Certificate of Proficiency in Bahasa Indonesia, Italian, Korean, Mongolian, Portuguese, Pushtu, and Urdu

V. SCHOOL OF LIFE SCIENCES

- i) **M.Phil./Ph.D.** in modern areas of Life Sciences.
- ii) **M.Sc.** in Life Sciences: This 2-year programme was open to candidates from both Biological and Physical Sciences streams.

VI. SCHOOL OF PHYSICAL SCIENCES

- i) **Ph.D.** Research and teaching activities of the School concentrated on areas of Physics and Chemistry. The School laid emphasis on chemical physics, condensed matter physics, non-equilibrium statistical mechanics, stochastic processes, and non-linear dynamics, Classical and Quantum Chaos, Chemical Physics, Condensed Matter Physics, Disordered Systems, Statistical Mechanics, Quantum Field Theory and Particle Physics, Mathematical Physics, Quantum and Nonlinear Optics, Statistical Nuclear Physics.
- ii) **M.Sc in Physics**: This 2-year programme is open to the candidates from Physics, Chemistry or Mathematics streams.

VII. SCHOOL OF SOCIAL SCIENCES

- i) **M.Phil./Ph.D.** Research facilities were available broadly in the following subjects/disciplines :
 - (a) Economic Studies and Planning;
 - (b) Educational Studies;
 - (c) Historical Studies;
 - (d) Political Studies;
 - (e) Regional Development (Geography, Economics, and Population Science);
 - (f) Social Systems; and
 - (g) Social Medicine and Community Health.

ii) Master of Community Health. (M.C.H.)/Ph.D.: The programme concerned the following three major areas: Social Medicine, Community Health and Community Health Nursing.

iii) M.A. It was a 2-year programme offered in Economics, Geography, History, Political Science and Sociology.

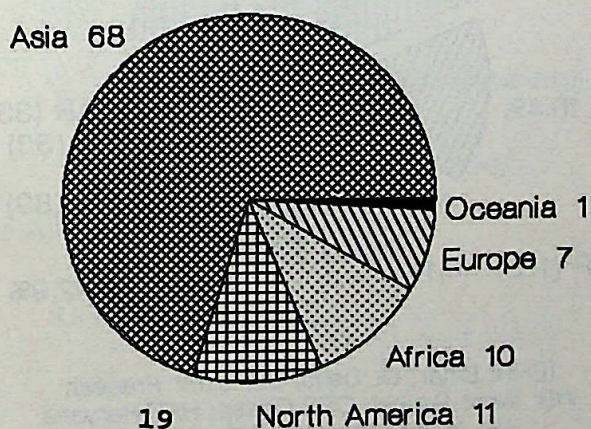
VIII. CENTRE FOR BIOTECHNOLOGY

i) Ph.D.: The programmes of the Centre were inter-disciplinary in nature. Course work and facilities were offered in the following areas:

1. Tropical Disease: Pathogenesis, Antigen Identification, Development of New Vaccines;
2. Photosynthesis and Plant Molecular Biology;
3. Molecular Genetics: Gene Transfer and Expression in Eukaryotic Systems; and
4. Oligo Nucleotide Synthesis, DNA Diagnostics, Expression of Synthetic Genes and Protein Engineering.

ii) M.Sc. in Biotechnology : This 2-year programme was so designed as to expose candidates to recent developments in genetic engineering and biotechnology and their exploitation in industry, agriculture, and medicine.

Foreign Students on Rolls (As on 1.9.1994) Total = 97

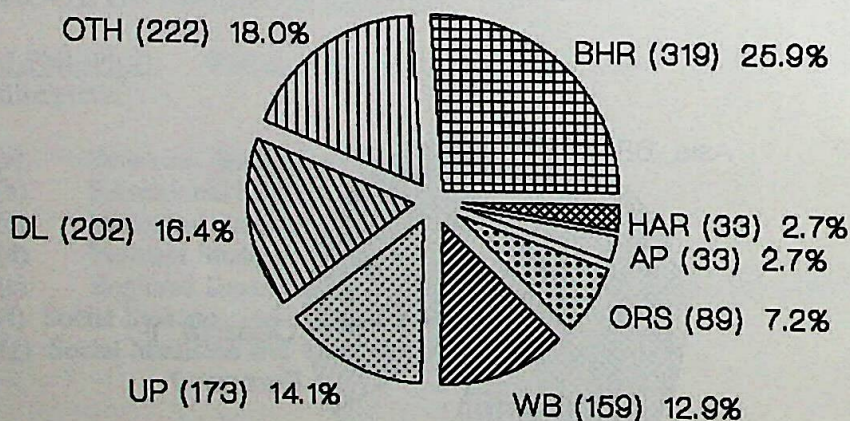


Admissions and Entrance Test

For 1994-95 academic session, advertisements for admission to various programmes of study in the University were released in 32 leading and regional newspapers all over the country. In response, over 57,000 application forms were sold. The University received 32,265 completed application forms for various courses. The entrance test was conducted at 35 centres throughout the country at Ahmedabad, Aurangabad, Bangalore, Bagdogra, Baroda, Bhubaneshwar, Bombay, Calcutta, Chandigarh, Cochin, Danapur Cantt., Dehradun, Delhi (5 centres), Dharwad, Gauhati, Hissar, Hyderabad, Indore, Jaipur, Jammu, Lucknow, Madras, Madurai, Patna, Pune, Ranchi, Sambalpur, Shillong, Thiruvananthapuram, Varanasi and Vijayawada.

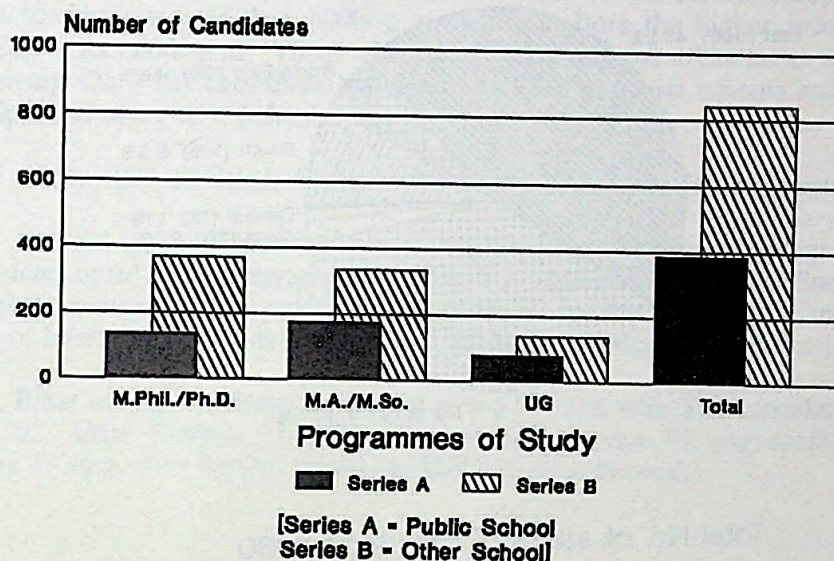
Of the total number of 23,564 candidates who appeared in the test, 11009 candidates secured minimum qualifying marks and a total of 1230 candidates got admission for pursuing Master's and Research Programmes at the University (507 Research and 723 Master's including under-graduate programmes). Of the 1230 candidates who finally joined, 507 were admitted to the M.Tech/Ph.D; M.Phil./Ph.D; MCH/Ph.D. Programmes; 507 to MA/M.Sc./MCA (including M.Sc. Biotechnology); and 216 to under graduate programmes of the University.

STATE-WISE ADMISSIONS TO FULL TIME PROGRAMMES OF STUDY (1994-95) Total = 1230



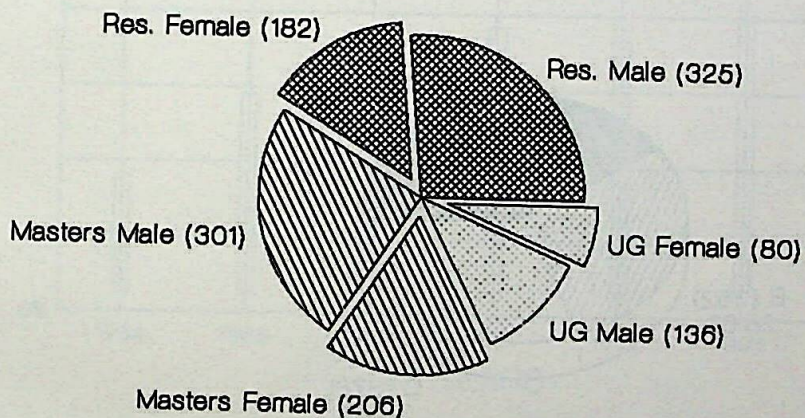
[BHR: Bihar, DL: Delhi; UP: Uttar Pradesh
WB: West Bengal; ORS: Orissa; HAR: Haryana
AP: Andhra Pradesh; OTH: Others]

SCHOOLING BACKGROUND OF CANDIDATES ADMITTED : 1994-95 Total = 1230



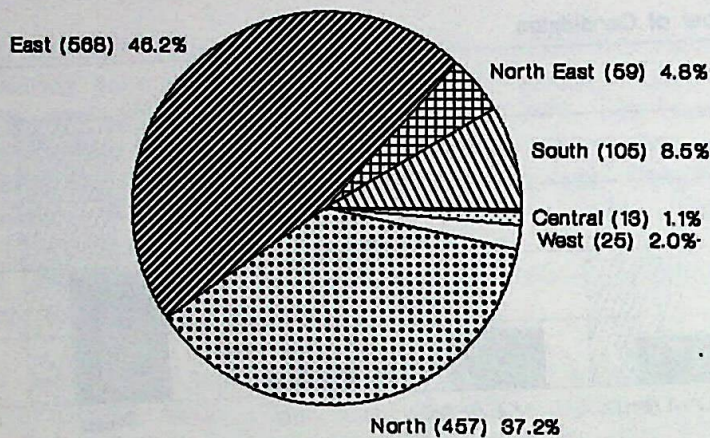
STUDENTS ADMITTED

Total = 1230



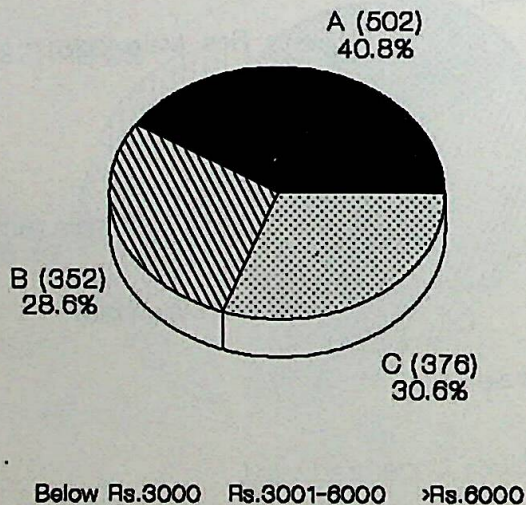
[UG = Undergraduate]

ADMISSIONS (1994-95) REGION-WISE IN-TAKE



Total No. of students admitted - 1230

PERCENTAGE DISTRIBUTION OF CANDIDATES FROM VARIOUS INCOME GROUPS (ADMISSIONS IN 1994-95)



Admission Trends

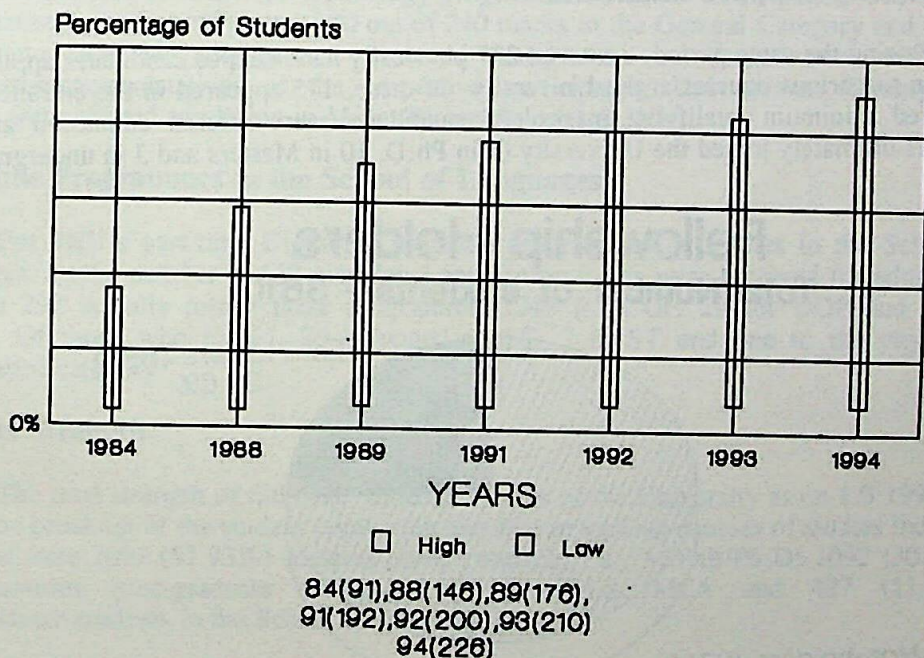
A total of 854 candidates came from the lower and middle income groups where parents income was less than 6000/-p.m. and 376 from the higher income groups with income over Rs.6000/-p.m. Those who came from rural and urban areas were 396 and 834 respectively. Only 388 candidates had their schooling in public schools and 842 came from Municipal and non-public Schools.

Of the 1230 admitted, 468 were female candidates and 762 male candidates.

206 girl students joined Master's programmes, 182 research programmes while 80 girl students opted for undergraduate courses. Schoolwise, the School of Social Sciences had the highest number of girl students 194, followed by the School of Languages 141 and School of International Studies 79. The rest of the 54 girl students joined science disciplines.

Bihar among the States continued to top the list with 319 candidates, followed by Delhi 202, Uttar Pradesh 173, West Bengal 159, Orissa 89 and Andhra Pradesh and Haryana 33 each. (For details, please see Tables 1-10 at the end.)

JNU ADMISSIONS (1984-94) (SC/ST IN-TAKE)



SC/ST Admissions

The University was able to give over-all representation of 18.38% to SC/ST candidates for admission to various courses of study during the period under report as against 17.87% last year and 10.74% ten years ago when the merit based admission policy was introduced. Of a total 2948 candidates belonging to SC/ST who applied for the entrance test, 2086 candidates appeared and 1003 candidates secured the minimum prescribed qualifying marks. Finally, 226 candidates were admitted -- 92 candidates joined research programmes, 89 Masters' Programme and 45 got admission in the under-graduate courses in the School of Languages of the University.

In various full-time programmes of Study, the highest number of SC/ST students (83) joined the School of Social Sciences, followed by the School of Languages (68), the School of International Studies (40) and the School of Life Sciences and the School of Computer & Systems Sciences (12 each).

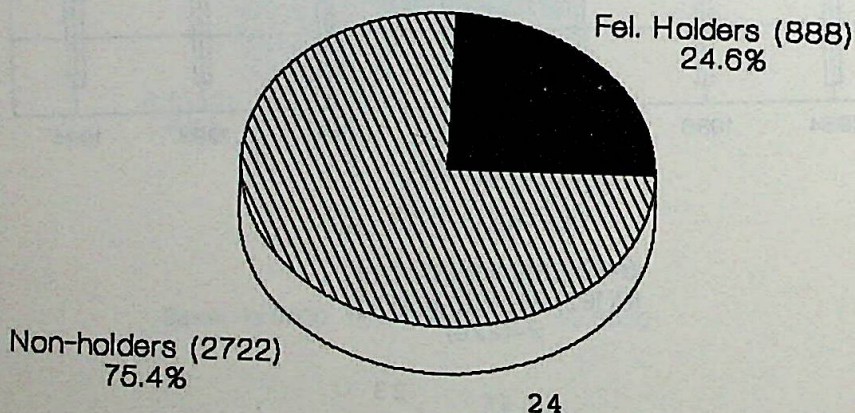
Figures indicate that there has been a gradual increase in the intake of students belonging to Scheduled Castes and Scheduled Tribes during the last ten years. In 1984 the number of SC/ST students joining various programmes of study at the University was 91, representing 10.7% of the total intake. This rose to 11.35% in 1988, 14.43% in 1989, 14.47% in 1991, 16.42% in 1992, 17.87% in 1993 and 18.38% during the year under report.

Physically Handicapped candidates

During the same period, a total of 237 physically handicapped candidates applied for admission to various courses at the University. Of these, 175 appeared in the entrance test, 69 secured minimum qualifying marks, 25 candidates were offered admission and 18 candidates ultimately joined the University (5 in Ph.D, 10 in Masters and 3 in undergraduate courses).

Fellowship Holders

Total Number of students = 3610



Foreign Students .

In addition, 74 candidates joined the University under "in absentia"/Foreign Nationals category. Sixteen candidates who could not register during last year on account of late declaration of their results or on account of other pressing reasons, also joined during the period under report.

Combined Entrance Examination (CEE)

In the case of admission in M.Sc. (Biotechnology), M.Sc.(Agricultural Biotechnology)/and M.Tech.(Biotechnology), the Jawaharlal Nehru University had conducted the combined entrance examination for 15 participating Universities including BHU, MS University of Baroda, Madurai Kamaraj University, Goa University, Puna University, Central University (Hyderabad), Devi Ahilya Vishwavidyalaya (Indore), Gurunanak Dev University (Amritsar), Jawaharlal Nehru University, Tamil Nadu Agricultural University (Coimbatore), G.B. Pant University of Agriculture & Technology (Pant Nagar), Jadavpur University, (Calcutta), Panjab University, Pondicherry University and Anna University (Madras).

For this, a total number of 5686 completed application forms were received. Of these, 3899 candidates appeared for the combined entrance examination for admission to M.Sc.(Biotechnology) Programme of participating universities, 360 candidates appeared for M.Sc. (Agricultural Biotechnology) and 315 candidates for M.Tech. Programme.

Admissions to M.Sc. Biotechnology programme of all the participating Universities were finalised upto cut-off point of 90 out of 240 marks in the General Category and cut-off point upto 45 in respect of reserved categories in consultation with the Coordinators/representatives of the respective participating Universities. Twenty four students were offered admission in M.Sc.(Biotechnology) at JNU.

Part-Time Programmes in the School of Languages

For JNU's part-time Diploma/Certificate programmes of studies in the School of Languages, a total number of 612 completed application forms were received for admission. Of these 292 actually joined these programmes (248 for COP, 29 for DOP and 15 for ADOP). Of those who joined, 26 belonged to SC, 3 to ST and one to the physically handicapped category.

Students Strength

The total strength of full-time students on rolls of the University as on 1.9.1994 was. 3610. The break-up of the student population enrolled in various courses of studies indicates that there were 2091 (57.93%) students doing research, i.e., M.Phil/Ph.D; 1092 (30.25%) were pursuing post-graduate studies, i.e., M.A./M.Sc./MCA and 427 (11.83%) undergraduate students in the School of Languages.

(a) Research Students

Of the total 2091 research students, the highest number of students was in the School of Social Sciences (725 students), closely followed by the School of International Studies with 674 students and the School of Languages 391. The School of Life Sciences had 104 research students. The School of Environmental Sciences 82, the School of Computer and Systems Sciences 58, the School of Physical Sciences 30 and the Centre for Biotechnology 27.

(b) SC/ST Students

Students' enrolment in the reserved category stood at a total of 441 students. Of this, a total of 236 students were doing M.Phil/Ph.D, and 205 Masters (including undergraduate) courses.

(c) Women Students

There is no reserved quota for women students. However, out of a total of 3610 full time students on rolls of the University as on 1.9.94, 1320 (36.57%) were women students – 721 (54.63%) pursuing research programmes and 599 (45.38%) students were in Masters and undergraduate courses.

Among the Schools, the highest number of girl students was in the School of Social Science (480) followed by the School of Languages (414) and the School of International Studies (271). The Science Schools had 155 girl students.

(d) Physically Handicapped Students

The number of physically handicapped students at the University was 41 – M.Phil/Ph.D, 20, Masters - 19, COP/DOP/ADOP - 2.

(e) Foreign Students

There were 97 students from different countries of the world studying at the University as on 1.9.1994 – M.Phil/Ph.D: 48, Masters: 49.

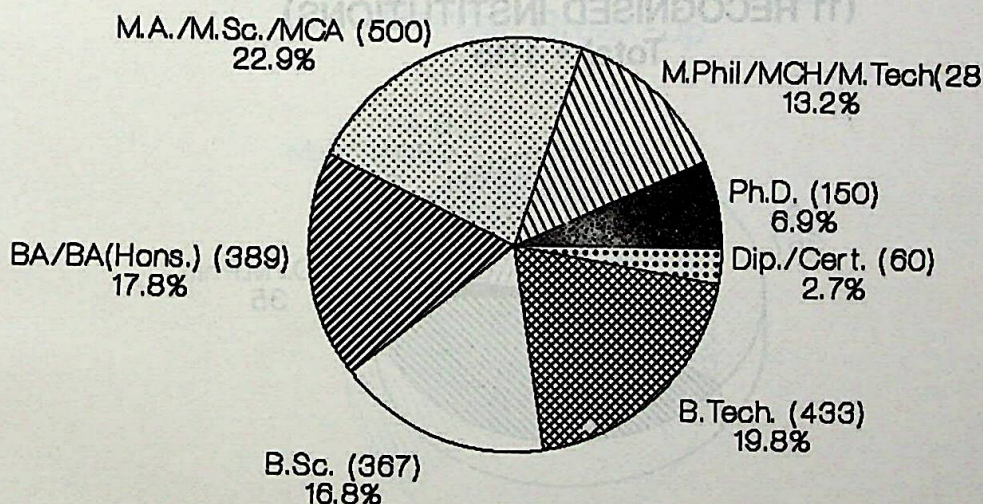
Sixty-eight students belonged to Asia (Afghanistan, Bangladesh, China, Indonesia, Iran, Iraq, Japan, Malaysia, Nepal, Palestine, Korea, Srilanka, Syria, Thailand, Tibet Vietnam and Yemen); 10 students were from Africa; 7 from Europe, 11 from North America and one from Oceania.

DEGREES/DIPLOMAS/CERTIFICATES AWARDED

During the year under report, 2188 students were awarded degrees by the University after they had successfully completed the programmes of study for which they had registered themselves at the University or at the Recognised Institutions:

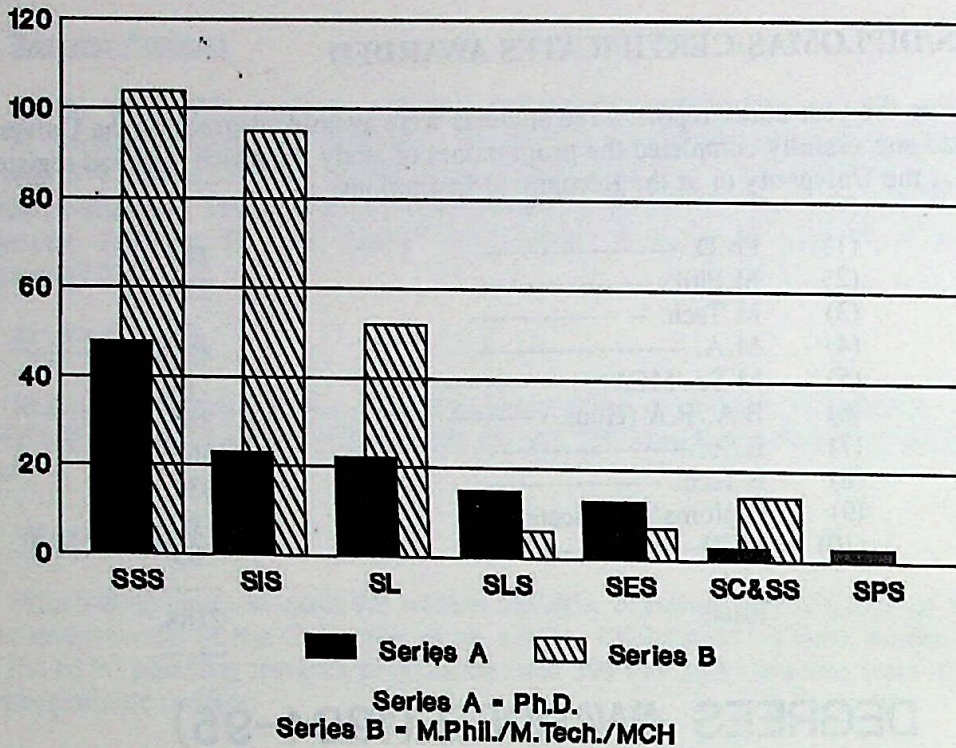
(1)	Ph.D. -----	146
(2)	M.Phil. -----	276
(3)	M.Tech. -----	14
(4)	M.A. -----	436
(5)	M.Sc./MCA -----	64
(6)	B.A./B.A.(Hons.) -----	389
(7)	B.Sc. -----	367
(8)	B.Tech. -----	433
(9)	Diploma/Certificate -----	60
(10)	MCH -----	03
Total:		2188

DEGREES AWARDED (1994-95)

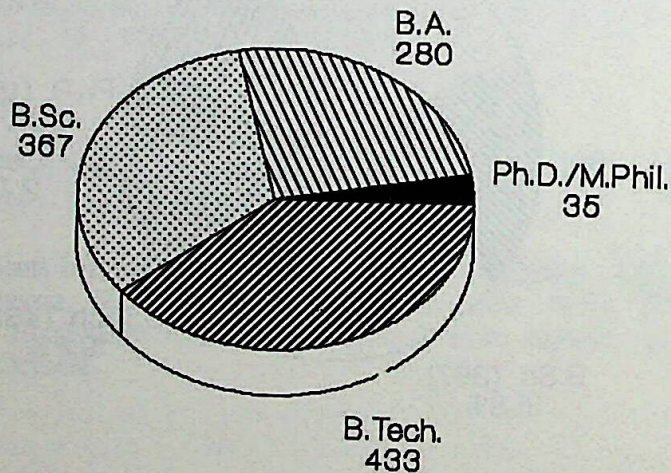


Total Degrees Awarded - 2188

RESEARCH DEGREES AWARDED (JNU)

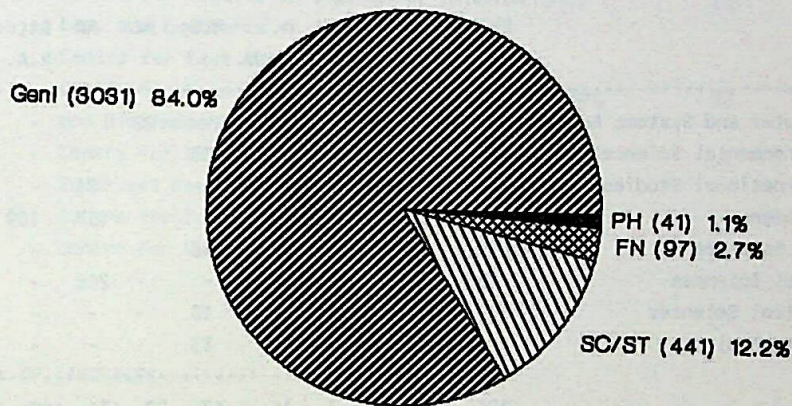


DEGREES AWARDED (11 RECOGNISED INSTITUTIONS) Total = 1115



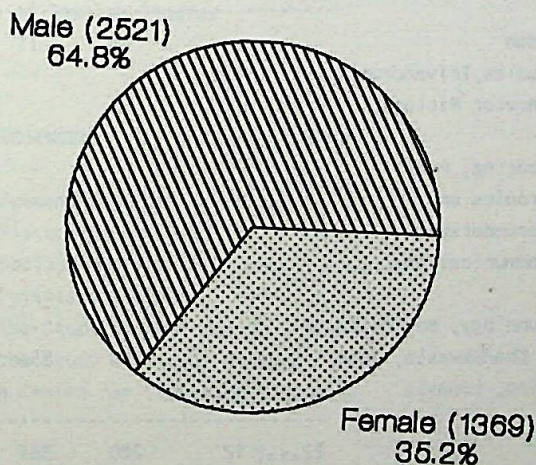
PROFILE OF FULL-TIME STUDENTS ON ROLLS AS ON 1.9.1994

Total = 3610



STUDENTS ON ROLLS AS ON 1.9.1994 : Total = 3890

Gender Break-up



[Series A = Male; Series B = Female]

**The bifurcation of results, School/Centre-wise
and programme-wise, is given below:**

**Degrees/Diplomas/Certificates Awarded
(from 13 May 1994 to 12 May 1995)**

I. At the University

School	Ph.D.	M.Phil.	MCH	M. Tech.	M.Sc.	MCA	MA	BA(Hons.)/ B.A.	ADOP	DOP	COP
1. School of Computer and Systems Sciences	03	-	-	14	-	22	-	-	-	-	-
2. School of Environmental Sciences	13	07	-	-	03	-	-	-	-	-	-
3. School of International Studies	23	95	-	-	-	-	71	-	-	-	-
4. School of Languages	22	52	-	-	-	-	157	109	8	17	35
5. School of Life Sciences	15	06	-	-	16	-	-	-	-	-	-
6. School of Social Sciences	45	104	3	-	-	-	208	-	-	-	-
7. School of Physical Sciences	03	-	-	-	10	-	-	-	-	-	-
8. Centre for Biotechnology	-	-	-	-	13	-	-	-	-	-	-
	124	264	3	14	42	22	436	109	8	17	35

ADOP Advanced Diploma of Proficiency

DOP Diploma of Proficiency

COP Certificate of Proficiency

II. Recognized Institutions

	Ph.D.	M.Phil.	B.A.	B.Sc.	B.Tech.
1. Army Cadet College, Dehradun	-	-	25	11	-
2. Centre for Development Studies, Trivandrum	-	12	-	-	-
3. Centre for Cellular & Molecular Biology, Hyderabad	12	-	-	-	-
4. College of Military Engineering, Pune	-	-	-	-	97
5. Military College of Electronics and Mechanical Engineering, Secunderabad	-	-	-	-	96
6. Military College of Telecommunication Engineering, Mhow	-	-	-	-	96
7. National Institute of Immunology, New Delhi	10	-	-	-	-
8. National Defence Academy, Khadakwasla, Pune	-	-	255	356	-
9. Naval College of Engineering, Lonavla	-	-	-	-	144
	22	12	280	367	433

CENTRE-WISE AWARD OF Ph.D./M.Phil. DEGREES (from 13 May 1994 to 12 May 1995)

I. SCHOOL OF INTERNATIONAL STUDIES

		Ph.D.	M.Phil.
1.	Centre for American and West European Studies	07	10
2.	Centre for Studies in Diplomacy, International Law, and Economics	02	10
3.	Centre for East Asian Studies	-	03
4.	Centre for International Politics, Organization, and Disarmament	02	27
5.	Centre for South, Central, Southeast Asian, and Southwest Pacific Studies	05	17
6.	Centre for Soviet and East European Studies	03	10
7.	Centre for West Asian and African Studies	04	18
Total		23	95

II. SCHOOL OF LANGUAGES

1.	Centre of African and Asian Languages	1	-
2.	Centre of East Asian Languages	-	-
3.	Centre of French Studies	2	1
4.	Centre of German Studies	2	1
5.	Centre of Indian Languages	11	35
6.	Centre of Linguistics and English	6	13
7.	Centre of Russian Studies	-	01
8.	Centre of Spanish Studies	-	01
Total		22	52

III. SCHOOL OF SOCIAL SCIENCES

1.	Centre for Economic Studies and Planning	05	06
2.	Centre for Historical Studies	07	25
3.	Centre for Social Medicine and Community Health	02	13
4.	Centre for Political Studies	06	21
5.	Centre for the Study of Regional Development	09	15
6.	Centre for the Study of Social Systems	10	15
7.	Zakir Husain Centre for Educational Studies	05	09
Total		45	104

Titles of the M.Phil. Dissertations and the Ph.D. Theses are given in Appendix 3.

LIST OF SCHOOLS/CENTRES

- I. SCHOOL OF COMPUTER AND SYSTEMS SCIENCES
- II. SCHOOL OF ENVIRONMENTAL SCIENCES
- III. SCHOOL OF LIFE SCIENCES
- IV. SCHOOL OF PHYSICAL SCIENCES
- V. CENTRE FOR BIOTECHNOLOGY
- VI. SCHOOL OF INTERNATIONAL STUDIES

- 1. Centre for American and West European Studies
- 2. Centre for Studies in Diplomacy, International Law, and Economics
- 3. Centre for East Asian Studies
- 4. Centre for International Politics, Organization, and Disarmament
- 5. Centre for South, Central, Southeast Asian, and Southwest Pacific Studies
- 6. Centre for Soviet and East European Studies
- 7. Centre for West Asian and African Studies

VII. SCHOOL OF LANGUAGES

- 1. Centre of African and Asian Languages
- 2. Centre of Japanes and North-East Asian Languages
- 3. Centre of Chinese and South-East Asian Languages
- 4. Centre of French Studies
- 5. Centre of German Studies
- 6. Centre of Indian Languages
- 7. Centre of Linguistics and English
- 8. Centre of Russian Studies
- 9. Centre of Spanish Studies
- Group of Philosophy

VIII. SCHOOL OF SOCIAL SCIENCES

- 1. Centre for Economic Studies and Planning
- 2. Centre for Historical Studies
- 3. Centre for Social Medicine and Community Health
- 4. Centre for Political Studies
- 5. Centre for Studies in Science Policy
- 6. Centre for the Study of Regional Development
- 7. Centre for the Study of Social Systems
- 8. Zakir Husain Centre for Educational Studies

Chapter 3

SCHOOLS AND CENTRES

All the seven Schools and Centres of Study including the Centre for Bio-technology at the University continued to invest in updating teaching skills of their staff during the year under report. This Chapter gives a summary of the academic activities of various Schools and Centres.

1. SCHOOL OF COMPUTER & SYSTEMS SCIENCES

The School, since its establishment, has been making a variety of changes to sustain quality teaching and research keeping in tune with the current state of the art and demands of the field. Its computational resources were extremely limited both in functionality and sophistication. The School made an assessment of the user needs and functionality needed to be achieved on a modest scale. The key components of the system are as under:

PC/Workstation/X-terminals.
Raster Graphics.

Some beginning has been made in installing a single LAN based or Ethernet environment.

The computational facilities of the School have been very limited in the past. However, with the following additional facilities, things are improved : the DEC AXP Alpha workstations, 2; X terminals, 2; LAN based or Ethernet Terminal server to connect existing PC to the server, Seven PC 486 based and three PC 386 systems. In this connection

it may be mentioned that Prof. C. P. Katti has recently been given grant by DST for the project: "Numerical solution of Two-point BVPs on Parallel Computers". A small amount of money will be spent to ease the Computational facilities. With additional funds it is hoped that the School will be able to procure the following:

- . Increase in memory of the servers.
- . Servers in place of workstations currently being used as servers.
- . Multimedia capability for selected workstations.
- . Connections to Internet through ERNET.

It is well known that SC&SS was among the first of all those who began offering inter-disciplinary courses in the University. At the moment it is offering as many as five courses for the benefit of the entire academic community.

The School has successfully organised teacher's orientation programme in Computer Science in the Academic Staff College. Participants from all corners of the country were delighted on being introduced to modern topics and current state of the art. The credit entirely goes to the enthusiastic faculty.

As part of the continuous process of revision and updation of the syllabus, the MCA curriculum has been revised and it is comparable with that of any other leading institution. It is operational from Monsoon semester, 1994.

The demand for the graduates of the School by prospective employers is well evident by the placement of the graduates in responsible positions in well-known national and international organizations like TCS, Wipro, HCL, AT&T USA, etc.

The School is the largest science school in the University so far as student enrollment is concerned. The student's strength at this point of time is 136 and the number of faculty on the roll is 16.

The faculty is also assisting in teaching programmes and research supervision of other institutions/universities. Many faculty members participated in national and international conferences.

Existing Laboratory Facilities

The computing environment of the School has been augmented recently with two RISC based DEC ALPHA servers connected on a TCP/IP Ethernet LAN. Other nodes on the network consist of two DEC X Terminals, X Terminal emulator based on 486 machines, seven 486 machines, six 386 machines and one DEC Terminal server capable of connecting 8 terminals to access any of the machines as the network.

Open Software Foundations D.C.E (Distributed Computing Environment) provides a truly distributed environment over the OSF/1 UNIX Operating System.

Printing Server is provided by one HP Laserjet, a couple of Dot Matrix and Line Printers.

OTHER INFORMATION

K.K. Bharadwaj, Chaired the Tutorial Session on "Road Map to SEI's CMM Level 5", International Conference on Software Engineering Practices, February, 1995.

Salient Features

- ☐ Degrees Awarded : 39 (Ph.D. : 3 ; M.Tech. : 14 ; M.C.A. : 22)
- ☐ Research Publications : 8 (Chapters : 3 ; Articles : 5)
- ☐ Students' Strength : 136
- ☐ Faculty Strength : 18 (Professors : 8 ; Associate Professors : 5 ; Assistant Professors : 5)

2. SCHOOL OF ENVIRONMENTAL SCIENCES

Set up in the year 1974, the School's academic programme has been periodically reviewed, revised and updated, keeping in mind the need for sharper focussing, the available expertise at any given time, and the changes desired in curriculum of individual courses or specific programmes. An M.Sc. programme was originally run in 1976, but it was discontinued for some time to allow for major revision. Subsequently, a revised M.Sc. programme in Environmental Sciences was introduced in 1987. Based on experience gained in running this revised package, a further revision was undertaken and starting from the academic year 1993- 94, two streams in M.Sc. programme were initiated, viz. one based on physical sciences, and the other based on biological sciences. The M.Phil/Ph.D. programme, started since 1975, has also undergone periodic changes in the curriculum. During this period M.Phil course structure has been revised and updated incorporating current trends in the field. Indeed the School was the first to start M.Sc./M.Phil programme in Environmental Sciences in the country.

The School has diversified interest in various earth, atmospheric and biological processes. Therefore, the curriculum has components of disciplinary areas such as physical sciences, earth and atmospheric sciences, environmental biology, and environmental monitoring and management. With such a high level of diverse research interests, over 100 students have successfully completed their Ph.D. degree in different aspects of Environmental Sciences.

The number of students on the rolls of the School as on 1.9.94 was 111; M.Phil/Ph.D. 82 and M.Sc. 29.

In the year under report, a total of 23 students were awarded degrees: M.Sc. 3; M.Phil 7; and Ph.D. 13.

As on 12.5.95, the faculty consisted of 11 Professors, 7 Associate Professor and 4 Assistant Professors.

The School notionally has four Areas of Research.

AREA - I

Mathematical modelling is a fast and effective tool for better understanding of the interaction of various systems with the environment. Therefore, interest is centred around on modelling a) ecosystems, b) non-linear biological and physical systems, and c) theoretical aspects of astrophysical plasmas.

Atmosphere is a medium of transport and diffusion of pollutants and once the pollutants are released into the air, they are at the mercy of atmospheric conditions. Monitoring pollutants is expensive and time consuming but modelling is least expensive and

fast. Therefore, air quality simulation models for point, non-point and multiple sources in different terrain conditions and acid rain are being developed. These have also utility in Environmental Impact Assessment studies for all types of industries. Tropical cyclones transfer various physical properties including pollutants from surface layers to upper troposphere and beyond. They can also act as scavengers of pollutants. For a better understanding of these processes mathematical modelling of tropical cyclones is in progress.

Population migration from rural areas into urban complexes lead to deterioration of air quality and noise levels and affect urban climate. To assess the impact of urbanization spatial variation of air quality in respect of ubiquitous pollutants like SO_2 , NO_x , TSP, O_3 along with meteorological parameters and noise levels are being monitored.

Experiments are also being conducted to assess the efficacy of various screens particularly vegetation for mitigation of noise and improving air quality and urban climate. Also for quick estimation of noise, for the assistance of regulatory agencies, mathematical models are also being developed for industrial sources and urban areas. Aerosols depending upon their size distribution affect climate. Modelling energy consumption and studies on impact of aerosols on climate are also in progress.

Modernization has led to the use of electrical appliances in our daily life causing electrical fields around us. In order to arrive at a safety criteria, experiments simulating the commonly occurring frequency levels are being conducted on the biological effects of anthropogenic electropollution. The work on biological tissue characterisation using ultrasound is also in progress.

AREA - II

Research activities in this area has been focussing on two distinct approaches: a) understanding the present day geological and geochemical processes in the terrestrial as well as aquatic environment, and b) origin of South Indian crust based on a variety of analytical tool including geochemical and geochronological.

As part of an all India coordinated project, one of the studies looks at certain aspects of sea level changes along the east and west coast of India. Database include historical as well as present day observations at selected sites using a variety of key parameters such as sediment movement, etc.

Many studies deal with a number of topics of relevance to environmental geochemistry and biogeochemical processes at various time scale from present to Holocene times. Important studies deal with F-problems in Rajasthan, heavy metal pollution in the Yamuna basin and an Environmental Information System (ENVIS) in Biogeochemistry. A variety of tools are employed in these studies including DNA and pollen measurements.

The work on the evolution of South Indian crust and formation of associated mineral deposits using geochemical and isotopic data continues. Work has also been started to understand weathering and soil formation as well as C and S cycling in phanerozoic times

with projects on the Deccan craton. Work is also in progress on biogeochemical cycle through geological time.

Geo-chemistry and hydrology of Himalayan glacier in the Garhwal Himalayas is another area of study. The work focusses on Dokriani Bamak and Gangotri glaciers with reference to chemical and sediment transfer in the upper reaches of the Ganga watershed. The studies are part of an all India coordinated research on Himalayan glaciers.

The School is developing research activities dealing with remote sensing techniques with special reference to groundwater exploration and mineral resources. This work is in collaboration with National Remote Sensing Agency.

AREA - III

A wide range of studies related to environmental pollution, its impact on biota and the ecology of fresh waters and wetlands constitute the thrust of this Area. Monitoring and assessment of water pollution particularly from sewage, pesticides, and industrial effluents in rivers, reservoirs and shallow waterbodies have been investigated in detail. Further, comprehensive studies on aquatic ecosystems including different kinds of wetlands have covered the ecology of wetland vegetation, benthos and plankton, and its implications for wetland management. Studies on chemical speciation of heavy metals and distribution of PAH in aquatic environment have particular relevance to their effects on plants and animals.

The effects of sewage and sludge disposal, mine spoils and flyash on soils characteristics as well as their effects on plants, and solid waste management are other major fields of concern in this area.

Currently there is also interest in monitoring of indoor and outdoor air pollution to assess occupational exposures.

AREA - IV

The effects of a variety of toxic elements on humans and on plant and animal species of direct importance to human existence have been the subject of study in the School at both the population and organism, as well as at the cellular and molecular levels. By studying cell matrix interaction during tumor formation and metasis, a new cell surface receptor hyaluronan binding protein has been cloned. Effort is being made to use this clone DNA as prognostic tumor marker carcinoma. Heavy metal toxicity and chemically induced carcinogenesis have been studied at suboptimal level on animal and cell culture system in order to relate the bioconversion and biodegradation of pollutants with toxicity development. Work is also in progress on the sensitivity of plants to environmental pollutants, and UV radiation effect on biological systems.

Many studies are also focused on host-parasite interaction using *Entamoeba histolytica* as a model. Cloned DNA fragments from *Entamoeba histolytica* has been developed as a probe to carry out epidemiological and diagnosis of amoebiasis.

Ecosystem dynamics and function are evaluated at individual, population and community levels; interacting sets of ecosystems (landscape) are also being evaluated from the point of view of evolving sustainable landscape management strategies. These studies relate to understanding ecosystem stability and resilience. Linking up ecological processes with social processes at ecosystem and landscape levels is of particular interest. Studies on above and below-ground biodiversity management, maintenance of soil fertility through an understaining of soil biological processes at ecosystem and landscape levels and sustainable livelihood/development of traditional societies are areas where considerable work has been done and is in progress. Many of these studies relate to a variety of issues in the context of global change and terrestrial ecosystem function.

Much of these studies are being done through networking - involving young scientists, governmental agencies and non- governmental voluntary agencies spread over the country. These studies being implemented are tailored to specific national needs form part of many international research programmes of non- governmental and inter-governmental organisations with whom linkages exist.

NATURE OF COLLABORATIVE ARRANGEMENTS

P.S. Ramakrishnan: Collaborative research is being done on a net-working basis. Involving a number of research Institutions, Universities, non-governmental organizations, individual scientists and voluntary group. The following sums up the efforts: (i) Continues to coordinate, jointly with Dr K.G. Saxena of the School, the International research programme for South Asian Regional Network (SARNet), on Tropical Soil Biology and Fertility (TSBF), headquartered in UNESCO-ROSTA, UN Complex, Gigiri, Nairobi in Kenya with support from UNESCO Headquarters, Paris, France, UNESCO Regional Office, New Delhi, IUBS, Paris. Four Coordinated Programmes have been developed in India: (i) The Himalayan network has the Kumaon, Garhwal, Himachal Pradesh, Sikkim and North-Eastern units of the G.B. Pant Institute of Himalayan Environment and Development, (ii) The Northern network has collaborators from Kurukshetra University, Haryana Agricultural University, Allahabad University and G.B. Pant University of Agriculture and Technology. (iii) The Southern network has collaborators from Kerala Forest Research Institute, The Rubber Research Institute of India and Varanasi Research Foundation, (iv) The Soil Biota Network has collaboration with the Sambalpur University, University of Agricultural Sciences, Bangalore, Institute of Soil Biotechnology, Madras and Centre for Integrated Rural Development, Pondichery.

(ii) Jointly with UNESCO, New Delhi, G.B. Pant Institute of Himalayan Environment and Development, Kosi, Almora, Kerala Forest Research Institute, Peechi, Kerala and Karnataka Forest Department. Prof. Ramakrishnan is coordinating a McArthur Foundation funded research project on "Biodiversity Conservation Within the Context of Traditional Knowledge and Ecosystem Rehabilitation", for a period of 3 years, 1995-98.

(iii) An Inter-Academy research project on "Population and Landuse Changes" has recently been approved for funding, involving Central Arid Zone Research Institute,

Jodhpur, Centre for Development Studies, Thiruvananthapuram with Prof. Ramakrishnan as the coordinator, through an invitation from the Indian National Science Academy. This project conceived through a collaboration between Indian National Science Academy, National Academy of Science, U.S.A and the Chinese Academy of Sciences have components of an integrated study programme also in USA and China.

D.K. Banerjee (SES) "Academic Link (ALIS)" collaboration with Imperial College Centre for Environmental Technology (ICCT), London under the aegis of UGC-British Council, ongoing since 1993.

R. Subramanian (SES) Selenium research in collaboration with AIIMS, New Delhi; Nutrition Foundation of India, New Delhi, Seetha Ram Bhartiya Medical Research Foundation Centre, New Delhi.

REVISION OF EXISTING COURSES AND INSTITUTION OF NEW COURSES

In order to bring about better focus in the teaching programme at the M.Phil/Ph.D. level, two new packages of common courses were designed with the provision that the students will have the option to choose atleast two courses from each package as given below:

Package A: (1) Ecosystem Processes; (2) Atmospheric Processes; (3) Earth Processes

Package B: (1) Statistical Methods; (2) Analytical Techniques; (3) Environmental Impact Analysis.

With this broad base, the students have to choose appropriate number of specialised optional courses from the list of 32 courses which was also approved.

Keeping the above in view, and considering the need for inter-disciplinary and inter-school teaching requirements, the School is currently in the process of revising the existing M.Sc. programme. It is expected that this would bring better focus in the teaching programme at the M.Sc. level too.

OTHER INFORMATION

B. Padmanabhamurty, (I) Lecture Notes written for the School of Correspondence Courses and Distance Education, APS University, REWA (MP): (i) "Prediction and Assessment of Impacts on the Air Environment", (ii) "Prediction & Assessment of Impacts on the Noise Environment", (iii) "Environmental Impact Assessment of Thermal Power Projects", (iv) "Environmental Impact Assessment of Mining Activities", and (v) "Air Pollution Monitoring"; (II) Modified the syllabus of "Earth, Atmosphere, Ocean and Planetary Sciences" of CSIR-UGC Net Examination; (III) Ad-hoc Committee Member of Atmospheric & Ocean Sciences, Kurukshetra University, Kurukshetra: (IV) Member - Project Advisory and Monitoring Committee for Monsoon and Tropical Climate of Ministry

of Science & Technology; (V) Member - Air Technical Advisory Committee of A.P. Pollution Control Board, Hyderabad; (VI) Editorial Board Member of "MAUSAM" Journal of Ind. Met. Dept.; (VII) Editorial Advisory Board Member of "Atmospheric Environment - Part B-Urban Atmosphere" U.K.; (VIII) Member-National Advisory Committee-Seminar on "Mathematical Modelling of Atmospheric & Ocean Processes" being held at Berhampur University, Orissa; (IX) Member - Selection Committees of: (a) Agricultural Scientists Recruitment Board (ICAR); (b) Indian Institute of Technology, Delhi, and (c) India Meteorological Department, New Delhi; (X) Referee of Research Projects & Papers of: (a) "MAUSAM" Journal of Ind. Met. Dept.; (b) "Vayumandal" Journal of Ind. Met. Soc.; (c) "Indian Journal of Agricultural Sciences"; (d) "Atmospheric Environment" U.K.; (e) Ministry of Science & Technology; and (f) Ministry of Environment & Forests; (XI) Member - "Core Committee for Steering Implementation of Abatement Measures to save Taj Mahal" Indian Oil Corporation, New Delhi and (XII) Member-Committee on "Standardisation of Air Quality Models" Central Pollution Control Board, Delhi.

P.S. Ramakrishnan, continues to be a member of the editorial boards of many national and international journals such as Proceedings, Indian National Science Academy - Biological Sciences, Tropical Ecology, Journal of Tropical Ecology, Forest Ecology and Management, International Journal of Wildland Fire, Vegetatio, etc. Also Member of various Advisory Committees Constituted by DST, CSIR, UGC, etc.

A.K. Bhattacharyya, acted as a member of Panel of Judges for FAI Silver Jubilee Award, 1994.

Syed. I. Hasnain, Chairman International Commission of Snow and Ice (ICSI) Working Group on Himalayan Glaciology (1995-1999); Member, Environmental Appraisal Committee on Nuclear Fuel Complex (Ministry of Environment and Forests, Govt. of India) (1995-97); Member, International Scientific and Organizing Committee on the International Symposium on Ecohydrology 96, to be held at Kathmandu, Nepal, March 1996.

Salient Features

- ☐ Degrees Awarded : 23 (Ph.D. : 13 ; M.Phil : 7; M.Sc : 03)
- ☐ Research Publications : 34 (Books : 5 ; Chapters : 8 ; Articles : 21)
- ☐ Research Projects : 16 (Completed : 3 ; On-going : 13)
- ☐ Awards/Honours : (i) European Union Fellowship, University of Manchester (UK) to Dr. Syed. I. Hasnain. (ii) DAAD Fellowship Fraunhofer Institute, St. Ingbert, Germany to Dr. J. Behari.
- ☐ Students' Strength : 111
- ☐ Faculty Strength : 22 (Professors : 11; Associate Professors : 07; Assistant Professors : 04)

3. SCHOOL OF LIFE SCIENCES

The School of Life Sciences, since its inception, has been a premier multidisciplinary research and teaching department in the country. The School has followed innovative teaching and research programmes in selected areas of modern biology. The School has contributed substantially, during the past years, to the integrated inter-disciplinary teaching and aggressive goal-oriented research activities both in basic and applied aspects of modern biology.

During the period under report, 15 students were awarded Ph.D. degrees, 6 students M.Phil degree and 16 students have been awarded M.Sc. degrees at the School.

The School had admitted 4 students in January, 1995, direct to the Ph.D. programme.

The School had a students strength of: Ph.D. 104; Direct and M.Sc. 27 as on 12.5.95.

The School has reputed research programme in Plant Molecular Biology, Genetics, Cell and Molecular Biology Immunology; front line research are being carried out in Molecular Biology of disease, Neuro and Behavioral Biology, bioenergetics aspects of plants and bacterial membranes; molecular basis of Physiological processes in plants and micro organisms and their stress tolerance.

The future plans and projections of the School are to develop centralized facilities for studies on neurobiology, molecular biophysics and structural biology. Facilities for intensive ressearch on gene technology of plants microbes and tropical and hereditary diseases have to be strengthened. Programmes on genetic manipulations in plants, microbes and other organisms for useful adaptive situations are to be focussed and developed and explored. Link activities under the DSA programme shall be pursued further to have meaningful interaction with other universities and institutions doing similar front line work. The School intends to compete for Centre for Advance Studies in Life Sciences under the UGC-SAP activity.

The School at present has 27 faculty members. This number needs to be increased with opening in the areas of Plant Biochemistry, structural biology membrane biophysics, biochemistry and bioinorganic chemistry, etc.

The Central Instrument Facility which provides the core support for research activities is unique in the kind it needs further augmentation in spectroscopic techniques such as PAS, Raman laser and cryogenic facilities of ESR, He-Ne He-Cd lasers for investigation to early events in primary photoprocesses, liquid nitrogen plants for cryogenic, tissue culture and molecular biology, and computational facility for molecular modelling. The uninterrupted power supply to School's Central facilities to laboratories is essential for year-round

research activity in the School. Teaching laboratories for M.Sc. and M.Phil classes need augmentation very badly, so that students are able to do skilled and innovative experiments on individual or group basis.

OTHER INFORMATION

Shipra Guha Mukherjee, (i) A Chinese student, Mr. Mo Rigen came from China to learn techniques in Prof. Sipra Guha Mukherjee's Lab from October 1994 to May, 1995; (ii) Dr. Anjana Baruah from Regional Research Laboratory (CSIR), Jorhat came to Prof. Sipra Guha Mukherjee's lab to learn techniques in 1995.

Prasanna Mohanty, (i) Member, TWNSO, Third World Acad. of Sciences, National Committee representing (ASSP); (ii) Visiting student from Netherlands, University of Wagenigen MS. LINDA DE POORTER from the Laboratory of Prof. (Dr.) Jack S. Van Rensen visited for three months (March-May, 1995) and worked on the physiology of cyanobacterium Spirulina in the laboratory of Prof. Prasanna Mohanty, under link activity; (iii) Editorial Board Proceedings (B) Natl. Acad. Sci. India (iv) Research Cooperative Studies with University of Pune, and BARC.

R.N.K. Bamezai, (i) Elected as a Member Executive Committee Environmental Mutagen Society of India, 1995; (ii) Nominated as one of the Editorial Advisors on Indian Journal of Human Genetics, an Official journal of the Indian Society of Human Genetics.

NATURE OF COLLABORATIVE ARRANGEMENTS OF SCHOOL

M. Habibulla, (i) Collaboration with Univ. Doz. Kastberger's lab in University of Graz, Austria; (ii) Collaboration with Prof. Phillip Brownwell Oregon State University, Corvallis, Oregon, USA.

Salient Features

- ☐ Degrees Awarded : 37 (Ph.D. : 15; M.Phil. : 6; M.Sc. : 16)
- ☐ Research Publications: 56 (Books : 2 ; Chapters : 6 ; Articles : 48)
- ☐ Research Projects : 49 (Completed : 5 ; On-going : 44)
- ☐ Awards : (i) Shanti Swarup Bhatnagar Award (1994) to Prof. Alok Bhattacharya (ii) FICCI Award for Research & Development in Life Sciences, 1994 to Prof. Asis Datta. (iii) Indian Scientist Award to Dr. R. Madhubala (iv) INSA-DFG Fellowship to Prof. M. Habibulla (v) NII Young Scientist Award to Ms. V. Haridas (Student)
- ☐ Students Strength : 131
- ☐ Faculty Strength : 27 (Professors : 18 ; Associate. Professors : 8 ;

4. SCHOOL OF PHYSICAL SCIENCES

Established in 1986 to develop an integrated and inter-disciplinary research programme in basic physical sciences at JNU, the School started its research activities from the Monsoon Semester of 1986, and a pre-Ph.D. teaching programme from the Monsoon Semester of 1987, with a faculty of three. Since then, the strength of the faculty has increased to fourteen, and at present it has four Professors, six Associate Professors and four Assistant Professors.

The research activities of the School are primarily in the theoretical areas of Nonlinear Dynamics, Classical and Quantum Chaos, Chemical Physics, Condensed Matter Physics, Disordered Systems, Statistical Mechanics, Quantum Field Theory and Particle Physics, Mathematical Physics, Quantum Optics, Statistical Nuclear Physics, and in the experimental areas of Complex Fluids, Condensed Matter Physics and Nonlinear Optics. The experimental programme of the School has been formulated keeping in mind the broad framework of a coherent theoretical and experimental activity in a few selected areas of Physics and Chemical Physics.

Simultaneously, the Ph.D. programme has also flourished and the School has been able to attract approximately 40 graduate students who have worked in close collaboration with the faculty on a variety of theoretical and experimental projects. Of the Ph.D. students, eleven have completed their Ph.D. thesis work in the last three years. The School has been able to establish itself as a centre of excellence in the above mentioned areas. This is evident from the publications of the faculty, the pre-eminence of the speakers who have delivered seminars in the School, and the talks given at various forums by the faculty. The UGC has also given recognition to the research activity of the School by granting it a Special Assistance Programme at the level of DRS, which has been in operation since 1994. Under this, a Workstation and a few PC 486's have been installed and a versatile electromagnet has been ordered.

The faculty members of the School are engaged in several collaborative research programmes with other Schools within the University as also with many national and international universities and institutes. True to JNU's inter-disciplinary character, a number of the faculty have a strong overlap of interests with those of faculty in the Schools of Computer and Systems Sciences, Life Sciences, Environmental Sciences as also the Centre of Biotechnology at the University. The students and faculty are also conducting experiments in collaboration with scientists at the Nuclear Science Centre, New Delhi, National Physical Laboratory, New Delhi, Indian Institutes of Technology at Delhi, Madras and Kanpur, Inter University Centre, Indore, and Solid State Physics Laboratory, Delhi.

Apart from these experimental collaborations, there are also many theoretical collaborations between the faculty and scientists at the Tata Institute of Fundamental Research, Bombay, Delhi University, Saha Institute of Nuclear Physics, Calcutta, Indian Institute of Science, Bangalore, Poona University, Pune, Princeton University, USA,

University of Illinois, Urbana, Manchester University, UK, Rutgers University, USA, and the Institute of Theoretical Physics, Uterecht, Holland. The faculty also maintains close links with departments at a number of foreign universities (e.g., Cambridge University, England, Johannes Gutenberg Universitat, Germany, Boston University, USA, University of Pennsylvania, USA, University of Toronto, Canada) and institutes (e.g., Polish Academy of Sciences, Warsaw, Poland, Institute for Solid State Research, Julich, Germany and International Centre for Theoretical Physics, Trieste, Italy). These collaborative arrangements ensure that the faculty and students at the School remain at the forefront of their respective research areas.

During the year under review, three students obtained Ph.D. and two more have submitted their thesis. One of our students has a scientist's position, two are teaching in Universities and eight are doing post-doctoral research in leading institutions in the country and abroad.

Our M.Sc. (Physics) programme, started in Monsoon 1992, is also progressing well. Students from diverse regions of the country have joined the programme. The second batch of twelve students has finished their M.Sc. curriculum in 1995. The M.Sc. programme has spurred a new level of activity and all the faculty members have contributed very positively towards designing courses and setting-up laboratory facilities. A new M.Sc. and Research Laboratory Complex has come up by renovating an old hostel building and the M.Sc. laboratories have been shifted there.

NATURE OF COLLABORATIVE ARRANGEMENTS

During the year under consideration, the Academic Council of the University gave recognition to the Nuclear Science Centre (NSC), New Delhi. NSC scientists have since then been actively participating in the teaching activities of the School. A course to be offered jointly to the research students of both the institutions is planned for the next semester. Research carried out by NSC graduate students is expected to lead to Ph.D. degrees granted by JNU.

R. Ramaswamy (SPS) has a collaborative project with Prof. Alok Bhattacharya (SLS) on the analysis of genomic sequences.

H. B. Bohidar (SPS) has a collaborative project with Prof. K. B. Roy (CBT).

Salient Features

- ☐ Degrees Awarded : 13 (Ph.D. : 3 ; M.Sc. :10)
- ☐ Research Publications : 24
- ☐ Research Projects : On-going 8
- ☐ Students Strength :51
- ☐ Faculty Strength :13 (Professors : 4; Associate Professors : 4; Assistant Professors : 5)

5. CENTRE FOR BIOTECHNOLOGY

The Centre for Biotechnology was established in 1985 with a mandate to develop an integrated and inter-disciplinary man-power training programme in the area of Biotechnology. An M.Sc. programme was started with this mandate and the research activity of the Centre started from 1987 with a pre-Ph.D. teaching programme. Initially the Centre had faculty of 6 which over a period of 10 years has increased to 11 : 3 Professors, 4 Associate Professors and 4 Assistant Professors. The broad areas of research being pursued by the faculty include Biochemical Engineering and genetic regulation of nitrogen fixing (Nif) genes.

The Centre has on roll 38 students in M.Sc. and 27 students in Ph.D. programme as on 1st September 1994. The M.Sc. teaching programme has established excellent reputation in the country; our 20 seats get filled up within the first 35 candidates from the All India merit list of joint entrance examination for Biotechnology in 17 universities conducted by JNU. The Ph.D. programme has also flourished and approximately 27 graduate students are working on a variety of projects of national importance and contemporary relevance. The students without exception have been able to place themselves easily in institutions/universities and also Biotechnology industries in India and abroad. The Centre has thus been successful in establishing itself as a Centre of Excellence as evident from the publications of the faculty, preeminence of the speakers who have delivered seminars in the Centre and research projects funding by Government funding agencies.

The informal interaction of the Centre with several reputed institutes has culminated in the formal recognition of the collaborative arrangement with ICGB, Delhi and the CSIR Institutes, IMTECH, Chandigarh and CIMAP, Lucknow. ICGB has joined hands with the Centre to run the pre-Ph.D. programme jointly with them. For an inter-disciplinary field like Biotechnology such collaboration between institutes of overlapping interest is a primary requirement for adequate development of this technology of 21st Century.

Like every year the Centre celebrated the National Science Day during the year to commemorate Dr. C.V. Raman. It invited eminent scientists to deliver lectures. Students from different neighbouring schools were brought to JNU to participate in the debate, open-house, science exhibition and to listen to the lectures to get enthused about modern biology and biotechnology.

The faculty of the Centre has been able to attract major grants from the funding agencies such as DBT, Ministry of Defence, ICMR and DST. During the period under review all the 4 Ph.D. students who passed last year have been able to join Post-doctoral programme in leading institutes of USA and Israel.

NATURE OF COLLABORATIVE ARRANGEMENTS

The faculty's efforts to establish collaborative arrangement with the International Centre for Genetic Engineering and Biotechnology, New Delhi and CSIR institutes like IMTECH, Chandigarh and CIMAP, Lucknow, who have evinced keen interest in the matter were reported last year. Over the last one year, these three institutions have been given formal recognition by JNU. Having been on the same campus, a stronger tie-up with ICGEB has been established through a joint Ph.D programme with provision that faculties from both sides will teach a well chalked out pre-Ph.D courses and will participate in collaborative research. Overlapping interest between the Centre and the CIMAP and IMTECH will also lead to active collaboration and focussed research for development of biotechnology in the country.

Dr. Kunal B. Roy of CBT and Dr.H. Bohidar of SPS have jointly got a DBT grant of Rs.17 lakhs for two years for development of a biosensor for screening of blood samples for AIDS infection - a milestone of collaborative research among different schools.

REVISION OF EXISTING COURSES

In order to have a uniformity in M.Sc. Biotechnology programme across the country all the course coordinators from different Universities met at DBT's initiative and revised the course structure with introduction of a course in "Intellectual Property Rights" in the light of GATT agreement and more inputs in genetic engineering including transgenic plants and animals.

Salient Features

- ☐ Degrees Awarded : M.Sc. : 13
- ☐ Research Publications : 7 (Chapters : 1; Articles : 6)
- ☐ Research Projects : On-going :13
- ☐ Awards/Honours : Shri Om Prakash Bhasin Award for Science & Technology, 1994 to Prof. H.K. Das.
- ☐ Students Strength : 65
- ☐ Faculty Strength : 9 (Professor : 2; Associate Professors : 4; Assistant Professors : 3)

6. GENETIC ENGINEERING UNIT

The Genetic Engineering Unit was established in early 1983 with funds amounting to Rs.127.76 lakhs from the Department of Science and Technology, Government of India, primarily to develop the molecular genetics of nitrogen fixation and secondarily to serve as a focal point with a view to stimulating Genetic Engineering Research in the country. A laboratory of about 10,000 sq. ft. area has been constructed, specially designed to suit the needs for research in this frontier area and has been provided with all necessary facilities and equipments.

The initial funding was for the period ending March 31, 1988. The Department of Biotechnology, Government of India has assumed responsibility of providing core funding for the Unit from April 1, 1988. The total amount of grants received during the six year period ending March 31, 1994 comprising the core support and projects funded by various granting agencies was Rs. 253.38 lakhs.

The Department of Biotechnology has committed to provide core support for the Unit during the period of 8th Five year plan ending on March 31, 1997. The total outlay on core support by the Department of Biotechnology for the 8th plan period is Rs. 138.00 lakhs.

The primary objectives of the Unit is to carry out research aimed at understanding at the molecular level the intricacies of biological nitrogen fixation and its genetic regulation. The basic knowledge that would be generated would be useful in future to improve upon the efficiency at which bacteria fix nitrogen. This would ultimately improve crop yield and protein production.

To this end the following could be cited as achievements of the Genetic Engineering Unit:

1. Construction of a complete genomic library and providing with physical evidence for the presence of three different pathways of nitrogen fixation in *Azotobacter vinelandii*, a free living nitrogen fixing bacterium.
2. Cloning of a complete polycistronic operon from *Azotobacter vinelandii* containing the three structural genes coding for the molybdenum dependent nitrogenase.
3. Cloning of a positive regulatory element involved in molybdenum dependent nitrogen fixation in *Azotobacter vinelandii*.
4. Cloning of Ferredoxin I gene from *Azotobacter vinelandii*.

5. Development of a method for plasmid mediated transposon mutagenesis in *Azotobacter vinelandii*.
6. Cloning, characterization and determination of base sequence of a complete polycistronic operon containing one of the structural genes of the vanadium dependent pathway of nitrogen fixation in *Azotobacter vinelandii*.
7. Establishing the role of DNA supercoiling in the regulation of expression of *nif* genes.
8. Cloning, characterization and determination of base sequence of the DNA *gyr A* gene of *Klebsiella pneumoniae*, a free living nitrogen fixing bacteria.
9. Study of the complex nature of the genome of *Azotobacter vinelandii* and demonstration of the presence of about 80 copies of the chromosome per cell.
10. Cloning and the characterization of *recA* gene of *Azotobacter vinelandii* and construction of a *recA* deletion mutant.
11. Determination of base sequence of the *recA* gene of *Azotobacter vinelandii*.
12. Study of the regulation of expression of the *recA* gene of *Azotobacter vinelandii*.
13. Study of the regulation of expression from the *vnfH* promoter of the vanadium dependent nitrogen fixation pathway in *Azotobacter vinelandii*
14. Transposon mutagenesis of the genome of *Azotobacter vinelandii* in search of auxotrophic mutation.
15. Demonstration of the involvement of the ferredoxin-like gene downstream of *vnfH* in the vanadium dependent alternative pathway of nitrogen fixation.
16. Cloning, characterization and base sequence determination of a negative regulatory element(*nifL*) involved in the molybdenum dependent nitrogen fixation in *Azotobacter vinelandii*.
17. Study of the control of expression of the regulatory operon of the molybdenum dependent pathway of nitrogen fixation in *Azotobacter vinelandii*.
18. Determination of the size of the chromosome of *Azotobacter vinelandii* to be about 4.5 megabase by digestion of the intact chromosome with rare cutting restriction endonuclease and separation of the fragments by pulsed field gel electrophoresis.
19. Determination of the size of the chromosome of *Azotobacter chroococcum* to be about 5.3 megabase.

20. Isolation and characterization of a locus from *Azospirillum brasilense* Sp7 that complements the tumorigenic defect of *Agrobacterium tumefaciens* *chvB* mutant.
21. Electron microscopic characterization of *in vitro* replication intermediates and mapping of *oriA* of pea chloroplast DNA.
22. Electron microscopic characterization of the binding of *Escherichia coli* SSB protein to M13 mp 19 DNA.
23. Electron microscopic demonstration of the existence of multitude of circular DNAs in the nucleus of *Entamoeba histolytica*.

The following are the research publications that have appeared during the period as a result of work done in the Genetic Engineering Unit:

1. Surabhi Raina, Ramesh Raina, T. V. Venkatesh and H. K. Das "Isolation and Characterization of a Locus from *Azospirillum brasilense* Sp7 that Complements the tumorigenic defect of *Agrobacterium tumefaciens* *chvB* mutant" Mol. Plant Microbe Interact. pp. 332-326, vol.8, 1995
2. Suman Kumar Dhar, Nirupam Roy Choudhury, Alok Bhattacharya and Sudha Bhattacharya, "A multitude of circular DNAs exit in the nucleus of *Entamoeba histolytica*. Mol. Biochem. parasitol. pp. 203-206, vol. 70, 1995.

It has always been the policy of the Genetic Engineering Unit to welcome any interested Scientist and impart basic training in various techniques involved in Recombinant DNA technology. This has helped many of them to get over the misconception that such "sophisticated" experiments can not be done in India. We have also assured these scientists of all subsequent help in the form of advice, strains, plasmids and experimental protocol, so that they can initiate some work in their own laboratories. To date altogether 73 scientists have obtained such training, the period of training, on an average, being 2 to 3 weeks. In several cases long training extending over a period of 5 to 9 months has also been given.

7. SCHOOL OF INTERNATIONAL STUDIES

In the past 40 years the School has established itself as a leading institution in the study of International Relations and Area Studies. Its reputation both in India and abroad, as a Centre of higher learning, is well known. It has been a pioneer in developing International Relations as an academic discipline and in advancing knowledge and understanding of International Affairs through extension work. It has a large reservoir of expertise in Area Studies. Scholars engaged in those studies have first-hand knowledge of the life, thought and languages of the countries concerned. Periodically, they visit the area of their specialisation to learn the local and national languages there, and attain a high level of competence in the use of the source materials available in these languages.

During the period being reported, the academic programmes of the School were further streamlined. Some new courses were introduced both at M.A. and M.Phil levels. The School organised the following national/International seminars :

SEMINARS

- i) 'SAARC 2000 and Beyond', March 23-25, CAWES
- ii) 'Indo-Nepal Colloquium' - Sept'94 / CSCSEASWPS
- iii) Indo-Hungarian Round Table Conference on "Experiences of India and Hungary : Reform and Liberatisation of their Economics," March 7-8, 1995, CSEES/SIS.
- iv) "Iraq in the 90's", November 1994, CWAAS.
- v) International Conference of Mongolia, February 20-24, 1995/CIPOD.
- vi) U.N.-Cyprus Conflict & Management, March 21-22, 1995/CIPOD.

The School conducted the All India Jawaharlal Nehru Centenary Inter-University Debate. The Debate was held on 30 November, 1994. For this 110 Universities in India were invited to nominate two participants each. 23 Universities/Institutions participated in the Debate. The winning team is given a running trophy. The Winners and runners-up were :

- | | | |
|----|--|------------|
| 1. | Punjab University, Chandigarh | Winner |
| 2. | Jawaharlal Nehru University, New Delhi | Runners-up |
| 3. | Jai Narayan Vyas University, Jodhpur | do |

During the period under review 23 research scholars were declared eligible for the award of the Ph.D. degree, 95 for the award of M.Phil degree, and 68 for M.A. degree of the School.

The course, 'M.A. Economics (International)' in the Centre for DILE, approved by Academic Council, will commence from Monsoon Semester 1995-96 (i.e., from 22nd July 1995).

The School brings out a quarterly journal called International Studies, widely known Indian academic journal in the field of international relations and area studies with an international circulation. It is being published and marketed under an agreement with the University by Sage Publications India Pvt. Ltd., New Delhi.

The journal contains research articles, notes and comments on topics relating to current international relations and area studies, as well as reviews (including research articles). It brought out two issues during the year under report; two more are in the pipeline. The contents of the two issues brought out so far are as follows (besides the usual book reviews) :

July-September 1994 issue

Tom Travis, "The Usefulness of Four Theories of International Relations in Understanding the Emerging World Order";

Yogesh K. Tyagi, "The United Nations in the New World Order : A Critique of *An Agenda for Peace*";

M.S. Rajan, "The Security of Small States";

Vijai Kumar, "Problems of Succession to the Soviet Nuclear Arsenal and International Law";

Seyed Sadroddin Moosavi, "US Policy in the Persian Gulf and the Emerging World Order";

Md Nuruzzaman, "Confidence-Building in South Asia : A Bangladeshi Perspective"; and

Subrata Sengupta, "Towards a United Europe : A Review Article".

October-December 1994 Issue

Rajesh M. Basrur, "Structure and Interaction in the Global System";

Rajendra K. Jain, "European Security after the Cold War";

Adil Najam, "The South in International Environmental Negotiations"; and

Muhammad Azhar and D.N. Rao, "Diversification as a Strategy for the Economic Development of Kuwait".

In 1995, Pandit Hridayanath Kunzru Memorial Lectures on International Affairs were held from 24th February to 4th April 1995, on "United Nations and the Changing World". The series has been a regular feature since 1967. The Pandit Hridayanath Kunzru Memorial Lectures are organized to promote an understanding of International Affairs and underscore India's role in the world among those who have had no special opportunity of studying these subjects. In all, 25 lectures were delivered by the faculty members of the School as given in Annexure (II). 40 Certificates were awarded to participants who fulfilled the prescribed minimum attendance.

Several faculty members delivered lectures/participated in discussion/presented papers in conferences/seminars organized by various Institutions/Organizations in India and abroad during the period under report.

A number of distinguished Indian and foreign Scholars visited different Centres of the School. The names of those visitors are given in the relevant Appendix.

NATURE OF COLLABORATIVE ARRANGEMENTS

Centre for International Politics, Organisation and Disarmament

Sponsored Research in Field of Tourism in Collaboration with Institute of Tourism, Chandigarh.

A memorandum was signed with the Kiev Institute of International Relations, Republic of Ukraine, providing for exchange of Faculty, Research Scholars, Literature and holding of joint seminars. The University has now approached the UGC for necessary funds to implement the above mentioned Memorandum of Understanding.

Jointly organized conference under collaboration with University of Cairo, Cairo, Egypt 16-17 April 1995. Title of Conference: "The Challenges of Development and Security in a Changing World: The Egyptian and Indian Experience in Perspective" School level programme under the auspices of Gulf Studies Programme, Centre for West Asian and African Studies, SIS/JNU.

Organised a seminar on "Tradition and Modernity: Society, Culture and Language in the Maghreb Region" in collaboration with the Centre of French Studies and the Centre of Arabic and Asian Languages of the School of Languages, 17-18 April 1995.

INTRODUCTION OF A NEW COURSE

Sandwip K. Das, (CSDILE), A new M.A. Course in economic has been introduced by the International Trade and Development Division from the current academic year, i.e., from July 1995.

Centre for Soviet and East European Studies

A new M.Phil. course entitled, "Politics and Society in Hungary and East Central Europe", has been introduced w.e.f. the current academic year (1995-96).

REVISION OF EXISTING COURSE

Madhu Bhalla (CEAS/SIS) introduced a new course for the Monsoon Semester (July'95) "Society & Culture in Contemporary China" (M.Phil).

OTHER INFORMATION

Vijay Gupta, (CWAAS/SIS), (i) Member, Editorial Board, *African Quarterly* from Delhi; (ii) Member, UGC Review Committee, African Studies Programme at Bombay University; (iii) Member, Panel on Indian Oriental and African Languages, UGC; (iv) Chairman, Institute of African Studies, New Delhi; (v) Consultant on Film on "Movement for Equality in South Africa", Producer, Kunwar Bikram Singh; (vi) contributed a large number of articles on Africa in *Mainstream*, *Blitz*, *Hindustan Times*, *India Abroad*, *Pioneer*.

Salient Features

- ☐ Degrees Awarded : 189 (Ph.D. : 23 ; M.Phil : 95 ; M.A. : 71)
- ☐ Research Publications : 88 (Books : 14 ; Chapters : 33 ; rticles : 41)
- ☐ Research Projects : 18 (Completed : 4; On-going : 14)
- ☐ Awards : (1) Stimson Fellowship to Dr. Yogesh K Tyagi (2) Japan Foundation Fellowship to Dr. H.S. Prabhakar.
- ☐ Two year MA course in Economics (International) introduced from 1995-96 academic session.
- ☐ Students' strength : 797
- ☐ Faculty Strength : 79 (Professors : 34; Associate Professors : 32; Assistant Proffessors : 13)

8. SCHOOL OF LANGUAGES

The School of Languages, besides offering post-graduate and research programmes in traditional areas - English, Linguistics, Hindi and Urdu - provides undergraduate, post-graduate and research facilities in various European and Asian languages like French, German Russian, Spanish, Chinese, Japanese, Modern Persian and Modern Arabic. Further, it offers Certificate and Diploma courses in some other foreign languages like Italian, Mongolian, Portuguese and Pushtu. The School offers undergraduate and research facilities in Philosophy also. This year, the School has introduced a new full-time three year degree programme in Korean language which was earlier being offered as a two-year part-time Diploma programme. The earlier Centre of East Asian Languages has been bifurcated into two independent centres named as Centre for Japanese and North-east Asian Languages and Centre for Chinese and South-east Asian Languages.

The School, with its 9 Centres of Studies - Centre of African and Asian Languages; Centre of Japanese and North-East Asian Languages; Centre of Chinese and South-east Asian Languages, Centre of French Studies; Centre of German Studies; Centre of Indian Languages; Centre of Linguistics and English; Centre of Russian Studies; Centre of Spanish Studies and a Group of Philosophy, is the only institution in the country which offers post-graduate and research programmes in Japanese and Spanish and is contributing its best in these areas within its limited resources. Besides laying stress on the teaching of the languages through class-room methods in spoken and written language, practical training is imparted through the use of Language Laboratories well-equipped with the latest audio-visual facilities. Further, due weightage is given on teaching creative literature and cultural history of the countries where these languages are spoken. The thrust is on relating language to culture and society. Special emphasis is given on theoretical and practical aspects of translation and interpretation from one language to another. The School meets a large part of the need of teachers, experts, translators and interpreters in the country, particularly in the area of foreign languages.

The School maintains a close collaboration with other Schools of the university by providing courses, particularly for the School of International Studies and also takes courses from the School of Social Science and School of Computer and Systems Sciences to meet its needs of optional courses for the under-graduate programmes. The School helps other institutions and universities of the country in running their refresher and summer programmes. Within constraints of the strength of faculty, the School is also engaged in preparation of teaching material, text books and audio-visual material for use in the University and outside.

Salient Features

- ☐ Degree Awarded : 410 (Ph.D. : 22 ; M.Phil : 52 ; M.A. : 157; B.A./BA(Hons.) : 119; COP : 35 ; DOP : 17; ADOP : 08)
- ☐ Research Publications : 63 (Books : 19 ; Chapters : 17; Articles : 27)
- ☐ Research Projects : 3 (Completed : 2 ; On-going : 1)
- ☐ Awards : (1) Maithili Sharan Gupta Samman to Prof.Kedar Nath Singh (2) French Govt. Fellowship to Kiran Chaudhry/ Abhijit Karkun (3) DAAD Fellowship to Dr. R. Dengle, (4) Japan Foundation Fellowship to Dr. P.A. George, (5) Mellon Fellowship, Stanford University (USA) to Ania Loomba, (6) Jawaharlal Nehru Scholarship to pursue his research work to Mr. Mohd Abdul Razzaque.(student) (7.)Nehru Fellowship for Doctoral Studies in China for a period of one year to Mr. B.R. Deepak(student)
- ☐ Students Strength : Full Time : 1160; Part-Time : 280
- ☐ Faculty Strength : 99 (Professors : 21; Associate Professors : 44; Assistant Professors : 34)

9. SCHOOL OF SOCIAL SCIENCES

Established in 1970, the School of Social Sciences, now comprises the following eight Centres of Study:

1. Centre for the Study of Regional Development(CSRD)
2. Centre for Political Studies (CPS)
3. Centre for the Study of Social Systems (CSSS)
4. Centre for Historical Studies (CHS)
5. Centre for Social Medicine and Community Health (CSM&CH)
6. Centre for Studies in Science Policy (CSSP)
7. Zakir Husain Centre for Educational Studies (ZHCES)
8. Centre for Economic Studies and Planning (CESP)

The School initiated research programme from July 1971 in the first six Centres and the Master's programme was introduced a year later. These six Centres were established in 1971 followed by Zakir Husain Centre for Educational Studies in 1972 and the Centre for Economic Studies and Planning in 1973. While research programmes are common to all the Centres, the M.A. programmes are instituted in only five of these namely, CSRD, CPS, CSSS, CHS and CESP.

The teaching and research programmes in the School have certain innovational elements. While attempting to offer rigorous discipline-oriented training, it is attempted to generate interest in multi-disciplinary study and research. This is done by allowing students of a Centre which may have discipline-oriented course structure to offer courses in other Centres depending upon the aptitude of the student as well as the relevance of these courses to the main discipline. Experience shows that students have taken advantage of this opportunity, particularly at the M.Phil. level and the research activity consequently spans over a wide range of them. Secondly, continuous work in the semester as well as the opportunity for teachers to devise suitable teaching methods and curricula have made possible close interaction between students and teachers. Innovation in course contents as well as stimulating research in new directions are amply evident from the range of courses offered as well as the topics of research undertaken.

The teachers of the School individually as well as faculty of the Centres collectively have undertaken research projects sponsored by institutions like ICSSR, ICHR, Viking Systems International. Pittsburg (USA), North Eastern Council, Ministry of Social Welfare, UGC, ILO(Geneva), IDS(Jaipur), INSA Institute of Development Economics, Tokyo (Japan), CSIR, Asianet Communications Pvt. Ltd., New Delhi, Ministry of Environment, Population Council Asia and Near East Operation Research and Technical Assistance, Central Water Commission (Ministry of Water Resources). Shastri Indo-Canadian Institute, New Delhi, NCERT, United Nations Regional Centre, Nagoya(Japan), Indo-French Collaboration with the French Institute of Pondicherry, U.N. Development Fund for Women, and East West Centre Programme on Population.

The Centrewise break-up of projects completed and ongoing is given below:

Centre	Sponsored		Un-Sponsored	
	Completed	Ongoing	Completed	Ongoing
CESP	-	2	-	2
CHS	-	7	-	-
CPS	1	-	1	3
CSM&CH	-	1	-	-
CSR	6	16	1	6
CSSP	-	1	-	1
CSSS	4	6	-	-
ZHCES	1	3	2	2
Total	12	36	4	14

As reported earlier, CSSS, CHS, CESP, ZHCES and CSR have already got the approval under Department of Special Assistance Programme from UGC. UGC approval for SAP for the CPS has also been received and the SAP is operational since July, 1994.

ERECTION OF A MURAL IN THE SCHOOL

During the period under report, a mural was executed by Shamshad Hussain, a distinguished Painter. The mural is based on the concept of a university envisaged by the late Pandit Jawaharlal Nehru, viz: "A University stands for humanism, for tolerance for reason for the adventure of ideas and for the onward march of the human race towards ever-higher objectives. If the universities discharge their duties adequately, then it is well with the nation and the people".

The mural represents university life - interactions and relationships between teachers and students.

The 10x15 ft. mural is made of copper, burntwood, canvas and lacquer, etc., and is located in the lobby of the School (SSS-II).

VISITORS TO THE SCHOOL

Dr. Per Pinstrup-Andersen, Director General, I.F.P.R.I., Washington, USA, spoke on "Hunger, Food Security and Role of Agriculture in Developing Countries" on 30 March 1995.

Prof. Michael Roberts spoke on "Mentalite: Stirrers, Assistants, Historians, and the 1915 Swahili Pogrom against the Moors in British Ceylon", on 14 March 1995.

NATURE OF COLLABORATIVE ARRANGEMENTS

(i) CENTRE OF SOCIAL MEDICINE AND COMMUNITY HEALTH

With institutions outside JNU :

Dr. Imrana Qadeer: (a) IIT, Department of Biomedical Engineering in Injury Prevention; (b) WHO, Centre for Injury Centre.

Dr. K.R. Nayar: Indira Gandhi National Open University in Developing Courses for the Diploma in Rural Development.

(ii) CENTRE FOR THE STUDY OF REGIONAL DEVELOPMENT

With institutions outside India

Dr. Saraswati Raju and Mr. Naresh Kumar are associated with an ongoing project on Gender Mapping and production of an Atlas in collaboration with Geography Department, Durham University, Durham, U.K.

With institutions in India

Dr. Aslam Mahmood is collaborating with the Ministry of Urban Development in their programme for developing a course on Urban Management Programme for functionaries of small and medium towns in India. Dr. Mahmood was nominated by the Centre to participate in the programme.

Professor M.K. Premi is on the Central Technical Advisory Committee for ICDS and is also member on Social Welfare Committee, Federation of Indian Chambers of Commerce and Industry.

Professor Sudesh Nangia is collaborating with the UGC, in developing a Programme on Population Education in colleges.

Professor M.H. Qureshi has been jointly supervising a Ph.D. student registered in CRD&T, IIT, New Delhi. The collaboration is with Dr. Dilbagh Kaur of CRDT.

(iii) CENTRE FOR THE STUDY OF SOCIAL SYSTEMS

The Centre has a collaborative programme with College de France and CNRS since 1990 along with the Centre for Historical Studies of School of Social Sciences. Under this programme a study of Chanderi town in Guna district of Madhya Pradesh known for silk sarees has been undertaken. The field work has already been completed. Now a seminar is being planned on Chanderi in March 1996 in which participants from both the countries will make presentations.

REVISION OF EXISTING COURSES AND INSTITUTION OF NEW COURSES

(i) CENTRE FOR HISTORICAL STUDIES

1. The Chola State: Power and Legitimacy (L) M.A. & M.Phil. 4 Credits.
2. Puranic and Tantrik Religion (L) M.A. 4 Credits
3. Early Urban Centres (L) M.A. 2 Credits
4. Technology and Culture in Early India (L) M.A. 2 Credits
5. Advanced Sanskrit III M.Phil. 2 Credits
6. Advanced Sanskrit IV M.Phil. 2 Credits
7. SH 645 C/Q MA (4 Credits), M.Phil. (2 Credits), Histories and Theories of Nationalism.
8. SH 646 C/Q MA (4 Credits), M.Phil. (2 Credits), Encounters of Islam and Modernity: Comparative Histories.
9. SH 669 C MA (S) (4 Credits), History, Materialism and Cultural Theory.

(ii) CENTRE OF SOCIAL MEDICINE AND COMMUNITY HEALTH

New Course : Disease in History.

Revision of Existing courses: M.Phil./Ph.D.

(a) SM 601 Community Health and its Organisation in India; (b) SM 606 Research Methodology; (c) SM 607 Social Sciences Issues in Community Health (d) SM 608 Social Sciences Towards an Integrated Approach.

(iii) CENTRE FOR THE STUDY OF REGIONAL DEVELOPMENT

During the year ending July, 1994, about six courses of the MA Geography, and M.Phil. programmes were updated/revised. Attempts were also made to partially update and revise the following courses:

RD 506 Quantitative Methods in Geography II (Prof. G.K. Chadha)

RD 528 Regional Development and Planning (Prof. Atiya Kidwai)

RD 509 Geography of Social Well-being with special reference to India (Dr. S. Sinha)

(iv) CENTRE FOR THE STUDY OF SOCIAL SYSTEMS

The courses on 'Sociological Theories' and 'Sociological Thinkers' have been revised considerably. The revised courses are already being taught by Professors K.L. Sharma and Dipankar Gupta on 'Sociological Theory' and 'Sociological Thinkers' respectively. The Centre is also planning to introduce a new course on Indian Society. Outline of the course is yet to be finalised. Some new optional courses have also been offered at the Centre, namely, 'Peasant Sociology of India'.

(v) ZAKIR HUSAIN CENTRE FOR EDUCATIONAL STUDIES

Courses in Social Psychology of Education and Sociology of Education updated and courses in Economics of Education and History of Education were revised.

SPECIAL REMEDIAL COURSES

(i) CENTRE OF SOCIAL MEDICINE AND COMMUNITY HEALTH

Each SC/ST student is provided special sessions by the course incharge along with other students needing additional academic inputs. This was found necessary in view of the varied background of the students and their different needs.

(ii) CENTRE FOR THE STUDY OF SOCIAL SYSTEMS

The Centre organises orientation lectures for the MA 1st Semester students. The students coming from the weaker sections are advised to come in touch with their advisors to discuss their problems regarding courses and reading material, etc.

OTHER INFORMATION

(i) CENTRE FOR HISTORICAL STUDIES

Teachers' contribution to areas/fields other than their own specialization :

Harbans Mukhia (1) alongwith Professor Andre Beteille organized International Seminar, on behalf of IDPAD-ICSSR, on Comparative Methods in Social Sciences and contributed a paper to it, "Comparative Methods in the Study of Agrarian Structures". The Seminar was held at Bangalore in March 1995. Its proceedings will be edited by Willen Van Schendel and Harbans Mukhia later this year. (2) alongwith Praful Bidwai and Achin Vanaik, edited special issue of *South Asia Bulletin*, published from Duke University on the "Communal Problem in India".

(ii) CENTRE FOR THE STUDY OF REGIONAL DEVELOPMENT

DSA Programme of UGC

The University Grants Commission extended support to teaching and research in Geography at the Centre at the level of DSA for a period of five years. In the light of recommendations made by the Visiting Committee, the Commission agreed to provide financial assistance to the extent of Rs.39.40 lakhs, spread over a period of five years. The sanctioned grant includes posts of three Professors, one each in Urban Geography, Population Geography and Agricultural Geography; one Research Associate; four JRF's; one Technical Assistant and one driver. The UGC also sanctioned funds for the purchase of equipment for computer-aided cartography and remote sensing labs as well as for the development of other labs and for strengthening the Documentation Unit in the Centre. Funds were also provided for a vehicle to facilitate the field-work based courses and faculty research.

The following thrust areas were identified for research under the DSA programme:

- (A) Regional Development with special emphasis on the trends and pace of urbanisation, rural-urban interaction and management of land resources for integrated rural development.
- (B) Social Geography with special emphasis on the role of tribes, caste, language and religion in the process of regional differentiation in India in the historical context and its implications to regional development planning in contemporary India.

A Computer-aided cartography and remote sensing lab has already been established. Computer configurations include four PC/AT-486 with LAN (5 user) software, one Sekonic Plotter, one Digitizer, one mouse, one TVSE, 4 PC-AS Terminals with one MS-DOS, one HCL-UNIX, and One PC-Link. One laserjet 4 MP with 4 PPM and 600 DP has been recently acquired and installed. During the last few months' steps for the upgradation of existing 4 PC's to 386 has been initiated and accomplished.

The Computer Aided Cartographic Lab is being utilised for cartographic work of the Centre. Cartography and GIS have already been introduced to the 4th semester students of MA Geography programme.

The lab has also been opened to the research scholars for data feeding purposes. The faculty members are allowed for text processing as well as for data feeding.

Special furniture for the DSA Computer Centre has also been purchased. An Assistant Professor (Computer-aided Cartography) has already joined and the Computer lab has started functioning under his charge.

The Centre, under its DSA programme, has obtained reprographic facilities for reduction and enlargement of maps etc. A 30 - seater mini-bus has also been purchased by the Centre under the DSA programme.

The DSA programme has contributed in a significant way in building up of the Documentation Centre. The programme alone has contributed over 250 titles of books and a host of other materials for use by the students of the Centre.

Besides creating infrastructural facilities, a number of research problems have been identified by the faculty of the Centre within the thrust areas and work on these research proposals is in progress. The research work under progress is:

- i) A. Ahmad, "Ecology, Cultural Plurality and Social Transformation in India".
- ii) Kusum Chopra, "Public Policy and Uneven Access to Food in Rural India: An Analysis of Regional Variation.
- iii) A.H. Kidwai, "Mega Cities in India: Calcutta and Bombay in a Historico-Geographical Perspective".
- iv) M.H. Qureshi, "Ecological and Economic Setting of Bishnoi Vilages in Haryana and Rajasthan".
- v) S. Raju, "Environmental Ecology, Women and Work".
- vi) S. Sinha, "Epidemiological Transition in India: Some Social, Economic and Environmental Linkages".
- vii) S.K. Thorat, "Determinants of Regional Variation in Agrarian Structure in India: 1953-54 to 1982.

Mr. Naresh Kumar, Prof. Harjit Singh and Prof.M.H. Qureshi conducted M.A. field work based course No. RD 413 in Kitlana village of Haryana during December, 1994.

(iii) CENTRE FOR THE STUDY OF SOCIAL SYSTEMS

The Centre, organized alongwith others, several seminars, discussions, and the XXI All India Sociological Conference from December 19 to 21, 1994. The theme of the conference was "Cultural Dimensions of Social Change". More than 700 participants and delegates attended the Conference. The Conference was a grand success. A profile of the Centre was published in the Souvenir that was brought out on this occasion. The faculty members of the Centre contributed working papers and participated in the symposia and panel discussions.

(iv) **ZAKIR HUSAIN CENTRE FOR EDUCATIONAL STUDIES**

The Centre under DSA had decided to concentrate on the following thrust areas: (1) Management and Planning of Higher Education; (2) Role of higher education in knowledge generation, dissemination and skill development; (3) Equity and excellence in higher education.

The above thrust areas may have the following sub areas: (a) Organisation of effective teaching learning systems; (b) Investment in education and social choice; (c) Higher education of Women, Scheduled Castes, Scheduled Tribes and other backward groups; (d) Accreditation, evaluation and examination reform; (e) State of education in the Indian State before Independence; (f) Educational Policy and development since Independence; (g) Curriculum formulation and development; (h) Restructuring and reorganisation of teacher education; and (i) Politics of higher education.

TEACHERS CONTRIBUTION TO AREAS/FIELDS OTHER THAN HIS/HER OWN SPECIALIZATION

Sushila Singhal: paper prepared for the Department of Science and Technology, Government of India; (i) State of Art on Science Education. Cognitive and Non-cognitive Inputs and outcomes, 1994, pp.93 and (ii) Recent Innovations in Physics and Chemistry Education: Results of a Content Analysis of Recently Published Articles, 1994, pp.48.

Karuna Chanana, (i) Student Mobility within the Commonwealth, Commonwealth Secretariat, London; and (ii) International collaboration in higher education within the Commonwealth countries (under preparation).

Salient Features

- ☐ Degrees Awarded : 360 (Ph.D.: 45; M.Phil: 104; MCH : 3; M.A.: 208)
- ☐ Research Publications : 140 (Books 16 ; Chapters : 36 ; Articles : 88)
- ☐ Research Projects : 49 (Completed : 12; On-going : 37)
- ☐ Awards : Swami Parmanand Award in Sociology & Social Anthropology to Prof. Yogendera Singh
- ☐ Students' Strength : 1159
- ☐ Faculty Strength : 102 (Professor : 51; Associate Professors 34; Assistant Professors: 17)
- ☐ DSA for five years to CSRD for teaching and research in Geography; UGC approval for SAP for CPS from July 94.
- ☐ Sukhamoy Ckavravorty Chair in Economics.

Chapter 4

THRUST AREAS AND PERSPECTIVE PLANS

This Chapter gives a summary of the thrust areas on which various Schools/Centres of the University wanted to concentrate vis-a-vis the results achieved, and short-falls, if any, in the achievement of the desired results, either due to paucity of funds or some other cogent reasons. It also provides details of the annual Perspective Plans of some of the Schools/Centres and how they match with the projected 8th Five Year Plan requirements.

A. THRUST AREAS

SCHOOL OF ENVIRONMENTAL SCIENCES

The School has diversified research interests but the thrust is centred around:

- a) Biogeochemical Cycling and Environmental Biology;
- b) Environment and Sustainable Development in the context of global change;
- c) Atmospheric and Earth Processes including Pollution; and
- d) Ecosystem Modelling.

CENTRE FOR BIOTECHNOLOGY

Thrust areas of research on which the Centre wants to concentrate are:-

1. Genetic expression in mammalian systems and human genetic disorders.
2. Molecular genetics of nitrogen fixation
3. Protein Engineering/DNA protein interaction
4. Molecular basis of infectious diseases
5. Molecular Immunology
6. Protein stability, conformation and folding.
7. Bioprocess optimisation and over-expression of recombinant proteins.

Considering the inter-disciplinary nature of biotechnology, these areas adequately cover a wide desirable range, however, progress has suffered because of inadequate space and logistic handicap due to fragmented existence of the Centre in two separate buildings. The class room, faculty and administrative office and store are in the first floor of SC&SS building, while research laboratories are in the fourth floor of SLS building. This prevents close interaction and continuous supervision of research students. Being experimental Science this is a severe handicap. It has now been decided to build a new building for CBT. Integration under one roof, adequate space and funding for Ph.D programme by the University are the three major requirements for development.

SCHOOL OF INTERNATIONAL STUDIES

- (i) The Centre for Politics, International Organisation and Disarmament has the following thrust areas:
 - (a) Politics of Biodiversity and Environment Management;
 - (b) International Tourism, Understanding, Development and Peace; and
 - (c) Crisis Management : Food, Water and Energy.
- (ii) Thrust areas of the Centre for South, Central, South East Asian and South West Pacific Studies are as under:
 - (1) India's Relations with Central Asia. (2) Strategic Importance of Central Asia and its Geopolitics. (3) Comparative Studies of Nationality question (4) Geopolitical Developments in Central Asia (5) Nation-Building Process. (6) Economic Development. (7) Society, Culture and Politics in CIS-Himalayan region.

Some progress has been achieved in fulfilling the desired objectives by individual research of the two faculty members of Central Asian Studies Division, and by M.Phil/Ph.D. scholars working in the Division. The actual thrust to this important area

study of Central Asia, will start only after Area Study status is achieved by the Central Asian Studies Division. It will facilitate the field studies by faculty and research scholars, library collections on the area and institutional networking with the study centres in Central Asian countries.

(iii) Thrust Areas of the teaching and research at the Centre for American and West European Studies are:

Latin American Studies Division: Strategies of economic development; political and electoral process; contemporary political parties, movements and thought processes; disarmament and defence related policies; nuclear programmes; environment and development; relations with US; Indo-Latin American relations.

(a) West European Studies Division: Foreign policies and domestic politics of European countries; European Community; security relations; Scandinavia; Social Democracy.

(b) American Studies Division: Contemporary American history; US foreign policy; Problems of Blacks in America.

(iv) The Centre for Soviet and East European Studies : Thrust areas have been identified under the Soviet Area Studies Programme of the UGC for the five year period beginning from July 1995. It is the major concern of the Centre to strengthen and consolidate these areas. It is also intended to develop the teaching and research programme in such new areas as (a) Economic and Political System in Commonwealth of Independent States (CIS); (b) Ethnicity, Nationalism in the CIS; (c) Political Pluralism in CIS; and (d) Problems of Transition in the CIS and East Europe.

(v) The Centre for West Asian and African Studies has the following thrust areas: (a) Israel Studies; and (b) India and West Asia in Post Cold War World.

SCHOOL OF LANGUAGES

The Centre of Linguistics & English runs two separate M.A. programmes (English and Linguistics) and an integrated M.Phil/Ph.D programme. The thrust areas include Literatures in English from Africa, Australia and India, Critical theory, Comparative Literature and Linguistics, Culture Studies, Semiotics, Area Linguistics, Indian Grammatical Traditions, Cognitive Linguistics, Socio-linguistics, Linguistics Study of tribal languages of India, English Language Teaching and Applied Linguistics.

The Centre has been able to achieve most of its targets (despite severe shortage of faculty positions) and the quality of students has improved over the years.

SCHOOL OF SOCIAL SCIENCES

(i) For the past few years, the Centre for Historical Studies has been making efforts to develop Ideology & Society as its thrust area. With this focus in mind, proposals for the renewal of its DSA programme were formulated after considerable series of discussions at faculty meetings. Proposals were submitted to the University Grants Commission for the renewal of the DSA programme underlining Ideology and Society as the Centre's thrust area, and the UGC has written to say that the second phase of the programme, extending over 1995-2000, has been approved.

The construction of the Library Building for the DSA programme has made some progress. The DSA library is in full use and the Centre hopes to add considerably to its holdings after fresh funds are released by the University Grants Commission.

(ii) The vision of the Centre for Social Medicine and Community Health incorporates three overlapping aspects of Community Health, i.e., Public Health, Social Sciences in Community Health and Environmental Studies. Each one of these covers certain specialised areas. Some of these sub-specialisations are already being handled and some need to be developed over time. The entire list of the sub-specialisations is as follows:

1. Public Health: (1) Epidemiology; (2) Communicable and non-communicable diseases; (3) Population Studies; (4) Maternal and Child Health; (5) Community Nursing; (6) Health Systems Research; (7) Occupational Health; (8) Nutrition as a Public Health Problem; (9) Health Man-power; (10) Health Planning and Policy; (11) Research Methodology and Bio-Statistics; (12) Hospital Administration; (13) Medical Legislation; (14) International Health (Comparative Health Study).
2. Social Sciences: (1) Medical Sociology; (2) Medical Anthropology; (3) Health Economics; (4) History of Public Health; (5) Health Psychology; (6) Political Economy of Health; (7) Research Methodology; (8) Historical Demography.
3. Environmental Studies: (1) Health and Environment; (2) Developmental Strategies and Environmental Implications; (3) Environmental Movements.

As of today, the Centre has been able to create a basic structure to take up the necessary academic activities in the three broad areas.

The Centre has built an inter-disciplinary group of faculty within the Centre and developed links with other Centres and Schools wherever feasible. The links that the Centre already has are in the areas of History of Public Health, Health Economics, Population Studies and Political Economy of Health.

The ones that the Centre plans to develop are the areas of Environmental Studies, Medical Legislation and Policy Studies. The long-term perspectives for the Centre are to strengthen these sub-areas and include others which are crucial for the future development of the discipline of Community Health.

The Centre now proposes to start those areas of specialisation which are necessary to deal with the newly emerging problems and issues in Community Health. Four thrust areas have been identified for the next phase of Centre's growth: (1) Environmental Studies; (2) Epidemiology; (3) Medical Sociology; (4) Population Studies.

(iii) The Centre for the Study of Regional Development has identified the following Thrust Areas for the VIII Plan based upon its past teaching and research experience.

- i) Natural Resources and Regional Development;
- ii) Geographic Information Systems and Computer Cartography;
- iii) Urban Economic Management;
- iv) Infrastructural Development (energy, transport, credit);
- v) Human Resource Development and Manpower Planning (education health and gender studies); and
- vi) Environment and Population.

In addition to the academic expansion outlined above the Centre proposes to upgrade its supporting facilities. The most pressing needs are: (i) rennovation of furniture, and (ii) replacement of some equipments.

The Cartographic Lab is in urgent need of some additional cartographic and replacement of some equipment furniture.

Keeping in mind the specified thrust areas and as also the new developments in social sciences, the Center has taken a fresh initiative in curricular development and is endeavouring to diversify its research activities especially in the areas of human resource and infrastructural development and environmental management.

Currently, the Centre is offering as many as six courses pertaining to environmental issues. Two new courses, relating to the social and gender issues in development, have been introduced. The Centre has also taken an initiative in revising and upgrading the MA as well as M.Phil. curriculum.

The DSA Computer-aided Cartography and Remote Sensing Laboratories have been established and are functioning. This year, attempts were made to further upgrade the existing facilities in the labs with the help of DSA funds. The Centre has, under its DSA programme, succeeded in acquiring 4 PC AT 486 with LAN (5 user) Software, and one laser jet 4 MP with 4 PPM and 600 DP printer.

Two existing courses in Statistical Methods are now being given with the help of Computer-aided cartography techniques. The MA students in Geography have started receiving extensive training in this area. The Centre envisages to introduce GIS courses in the MA Geography programme. Efforts are being made to acquire the necessary software for the purpose.

(iv) The Centre for the Study of Social Systems has identified the following thrust areas: (1) Sociology of Development and Modernization; (2) Sociology of Professions and Professionalization; (3) Sociology of Agrarian Structures and Processes; (4) Sociology of Social Movements and Social Mobilizations; and (5) Studies of Marginal Groups, Minorities and Ethnic Communities.

The Centre has also made considerable progress in teaching and research in the following areas: (1) Sociology of Culture; (2) Studies of Symbolism; (3) Sociology of Education; (4) Sociology of Gender; (5) Sociology of Knowledge; (6) Ethnicity and Social Stratification; and (7) Professions and Social Change.

In the case of some of the thrust areas it has not been possible to do substantial work as was envisaged because of paucity of funds. These areas are: (1) Studies of Marginal Groups, Minorities and Ethnic Communities; (2) Studies of Tribes and Indigenous Groups; (3) Political Sociology; and (4) Sociology of Education.

The Centre proposed to make a beginning in the following areas: (1) Quantitative Methods; (2) Social Psychology; and (3) Applied Sociology.

(v) The thrust of Zakir Husain Centre for Educational Studies has been to approach issues in Education through the disciplines of Economics, Sociology, History and Psychology. Guest faculty was invited from outside the University to teach courses in Methodology of Research. Some subject courses were taught by teachers of other Centres in the University.

The Centre under DSA had decided to concentrate on the following thrust areas:

- (1) Management and Planning of Higher Education; (2) Role of higher education in knowledge generation, dissemination and skill development; (3) Equity and excellence in higher education;

These thrust areas may have the following sub areas:

- (a) Organisation of effective teaching learning systems; (b) Investment in education and social choice; (c) Higher education of Women, Scheduled Castes, Scheduled Tribes and other backward groups; (d) Accreditation, evaluation and examination reform; (e) State of education in the Indian State before Independence; (f) Educational Policy and development since Independence; (g) Curriculum formulation and development; (h) Restructuring and reorganisation of teacher education; and (i) Politics of higher education.

B. PERSPECTIVE PLANS

SCHOOL OF ENVIRONMENTAL SCIENCES

The UGC sanctioned a scheme at DRS (Departmental Research Support) level in "Biogeochemistry and Environmental Biology", for a five year period, from April 1994, by sanctioning a sum of Rs. 35 lakhs which includes Rs.28 lakhs for capital equipments, and remaining for books and journals and consumables. In addition, a supplementary budget, upto Rs. 28 lakhs will be approved, as and when specific proposal received, for holding, Refresher Courses, Winter/Summer Schools, Guest Scholar Training, National and International Training and matching Grant for funds generated from other sources towards the DRS proposal. A core group of faculty is involved directly in the operation of the scheme, but with active support and contributions from others.

The proposal (a Rs. 10 crore project) submitted to UGC under Indo-Japanese collaboration by the School through their consultants, ECIL, for setting up a Centre for Environment and Sustainable Development in JNU with SES acting as the nodal point is still under review. This project envisages involving teachers from other Schools and Centres within JNU as well as relevant laboratories from across the country.

CENTRE FOR BIOTECHNOLOGY

The teaching and research in biotechnology constitute the focal points of the activity of the Centre. Research is the major component of this activity in as much as the M.Sc. students also do one-year project work and submit a dissertation as a requirement for their degree apart from course credits. The Special Committee of the Centre has already recommended that the critical mass for development requires sixteen faculty members. At the moment there are eleven positions and only eight on rolls. Keeping this in view, the Centre has asked for 5 faculty positions in Eighth Plan. The Centre also plans to start its own building, in a modular way, if necessary, within the 8th Plan period, for which fund requirement was included. The M.Sc. programme is funded by the Department of Biotechnology, Govt. of India, but the Ph.D. programme is a responsibility of the University for which adequate funds need to be provided.

SCHOOL OF LANGUAGES

The Centre of Linguistics and English proposes to work on Bangani, a lesser known language spoken in Western Himalayas - Garhwal, under the Course "Field Methods"

SCHOOL OF SOCIAL SCIENCES

(i) In many ways, the Centre for Economic Studies and Planning is at present poised to emerge as a real Centre of excellence. The M.A. programme which has got established for some time, is functioning well, and indeed the Centre is currently in the process of planning a major revision of the M.A. courses. The M.Phil/Ph.D programme is getting established. At a time when many reputed Centres of Economics in the country are finding it difficult to maintain themselves, the fact that CESP continues its teaching-cum-research activities, and is even witnessing a gradual improvement in standards is not mean achievement.

(ii) The Centre of Social Medicine and Community Health proposes to : (a) fill in all vacant posts; (b) strengthen select thrust areas such as epidemiology, health economics, environmental health and medical sociology; and (c) updating and improving Documentation Unit.

(iii) The Centre for the Study of Social Systems had originally visualised to have a strength of 25 faculty members by the end of 8th Five Year Plan. The Centre has succeeded partly in achieving its goals.

Several courses have been revised and reformulated. A couple of new courses have also been added.

Chapter 5

ACADEMIC ACTIVITIES

The faculty of the University continued to be productive in their academic and research activities as also in their classroom lectures and in the guidance they provided to research students during the period under review. They continued to participate in various conferences, seminars/symposia, etc., organized within or by other Universities, both in India and abroad, thereby keeping constant touch with the latest developments taking place in fields and areas of their specialisations and updating their knowledge and teaching skill. They had the opportunity of visiting a number of foreign countries and participating/delivering lectures, in a large number of conferences. Details about their participation as well as the special lectures delivered/paper presented by them outside the University appear in Appendices.

The University has an on-going process of updating the existing curricula and introducing new areas. As part of this process, a number of courses were either revised/updated or new ones instituted to meet the academic needs of the students in this fast changing world. Innovation in course content and stimulating research in new directions are evident from the range of courses offered as well as the topics of research undertaken in various Schools and Centres. Details are available in Chapter 3, under respective Schools.

During the period under report, the faculty members also continued to engage themselves in several collaborative research programmes with other Schools/Centres within the University as also with many national and international universities and institutions. The research projects undertaken by the faculty were both multi-disciplinary and inter-disciplinary in character.

Remedial courses in various Schools/Centres were organized by the faculty whenever considered necessary and additional tutorials taken to help SC/ST and other students to smoothly carry out the assignments given to them as part of their course work.

A number of conferences/seminars/symposia/workshops as well as special lectures by distinguished scholars/scientists from India and abroad were organized by the Schools and Centres of Study during the year. It also includes series of extension lectures organized for the benefit of the public at large. For details, please see Appendices.

Visitors to the University

A number of distinguished visitors, scholars/scientists, both from India and abroad, visited JNU from time to time during the year under report. Some of the scholars also delivered lectures/seminars or collaborated/interacted with departments/faculty members/students in scientific/academic research thereby enriching the academic environment of the University. They also included delegations of academics and others who visited the University to study some aspects of its functioning or to explore the possibility of collaboration with the University. For details, please see Appendix VI.

Chapter 6

RESEARCH ACTIVITIES

Research in JNU is undertaken at two levels -- by teachers and research personnel and by students because it is essentially a post-graduate research and teaching institution. The research endeavours of the faculty and other research personnel are reflected in the form of publications which include books/monographs (including edited volumes), chapters contributed to books and research articles/papers submitted at seminars/published in learned journals. A good deal of research is also undertaken by the faculty on various research projects in almost all disciplines. This includes both sponsored and unsponsored projects as well as those undertaken by the faculty members on their own initiative. Students also undertake research in pursuit of their M.Phil/Ph.D degrees.

I. Publications

During the year under report, the faculty of the University brought out over 400 publications. It included 56 books/monographs (including edited volumes). They contributed over 114 chapters in books and wrote over 252 research articles published in various national and international research and academic journals.

During this period the students in various Schools/Centres brought-out a number of publications. It included books/monographs (including edited volumes). They also contributed chapters in books and wrote research/popular articles in journals of repute.

Details of research publications by the faculty have been given in Appendix-I.

II. Research Projects

The faculty at the University continued to engage themselves in various other research related activities during the period under report. A total number of 150 research projects sponsored by various funding agencies and undertaken by teachers were under investigation in various Schools/Centres/Departments during the year with grants totalling Rs.236.76 lakh. (In addition, a number of faculty members had also undertaken many projects on their own which were under investigation.)

The funds for these projects were received from 37 national and international agencies including the Department of Bio-technology (21), Department of Science and Technology (29) Council of Scientific and Industrial Research (17), Indian Council of Social Science Research (17), University Grants Commission (13), Department of Environment (8), Indian Council of Historical Research (5), UNESCO, (1), UNICEF (1), European Economic Commission (1), and various other Councils and Agencies.

A sum of Rs.80.35 lakh (33.94%) was received from the Department of Bio-technology, over Rs.65.65 lakh (27.72%) from the Department of Science and Technology, over Rs.16.28 lakh (6.87%) from the European Economic Commission, Rs.13.14 lakh (5.55%) from Council of Scientific and Industrial Research and Rs.12.36 lakh (5.2%) from the Department of Environment. Details of funds received and spent are given in Chapter 12: University Finance.

During the year under report 63 projects including unsponsored ones were completed and 199 projects were in various stages of completion as on 12 May, 1995. Details of research projects appear in Appendix II.

III. Research Degrees

A total of 422 research degrees: 146 Ph.D. and 276 M.Phil. were awarded by the University during the year under report. Details of research degrees appear in Appendix III.

Chapter 7

THE FACULTY

The total number of teaching staff in the University was 370 (291 Male, 79 Female) comprising 149 Professors, (128 Male, 21 Female) 139 Associate Professors (108 Male, 31 Female) and 82 Assistant Professors (55 Male 27 Female) as on 12 May, 1995.

The maximum number of teachers were at the School of Social Sciences 102 (51 Professors 34 Associate Professors, 17 Assistant Professors) followed by the School of Languages - 99 (21 Professors 44 Associate Professors, 34 Assistant Professors). The School of International Studies had - 79 (34 Professors, 32 Associate Professors, 13 Assistant Professors). (For details please see Table Nos. 16 to 19)

The teachers-students ratio in the University was 1:10.51. The ratio varied considerably across different Schools/Centres.

TEACHERS' ASSOCIATION

Faculty Members of the University elected new office bearers of their Association during the year. They were: PRESIDENT-Varyam Singh, VICE-PRESIDENTS: Shankar Basu, Madan Lal, SECRETARY: A.K. Pasha, JOINT SECRETARIES: Akhtar Mahdi, Ajay Kumar Patnaik, TREASURER: M.M. Kunju.

SCHOOL REPRESENTATIVES

Uma Singh and K.D. Kapur(SIS), Aditya Mukherjee and Muralidhar Vemuri(SSS), B.G. Chakravorty and Purushottam Aggarwal(SL), R. Subramanian(SSES), R.N.K. Bamezai(SLS), Rajiv Bhat(CBT).

FACULTY STRENGTH**AT A GLANCE****Total Strength = 370**

		Professor	Assoc. Prof.	Asstt. Prof.	Total
1.	School of Computer & Systems Sciences	8	5	5	18
2.	School of Environmental Sciences	11	7	4	22
3.	School of Life Sciences	18	8	1	27
4.	School of Physical Sciences	4	4	5	13
5.	Centre for Biotechnology	2	4	3	9
6.	School of International Studies	34	32	13	79
7.	School of Languages	21	44	34	99
8.	School of Social Sciences	51	34	17	102
9.	University Science Instrumentation Centre	-	1	-	1
Total		149	139	82	370

Chapter 8

STUDENTS ACTIVITIES

AT A GLANCE

The total strength of students on rolls of the University as on 1.9.1994 was 3890 including 280 part-time students.

AT A GLANCE

Total Students	3890
Men	2521 (64.80%)
Women	1369 (35.19%)

Distributon of Students

	Total	Part-Time	MA/ M.Sc.	M.Phil/ Ph.D.	Male	Female	SC/ST	FN	PH
SCSS	136	--	78	58	109	27	28	3	4
SLS	131	--	27	104	72	59	18	-	4
SES	111	--	29	82	85	26	12	5	3
SPS	51	--	21	30	47	4	6	1	-
SIS	797	--	123	674	526	271	117	24	7
SL	1440	280	769	391	977	463	121	21	10
SSS	1159	--	434	725	679	480	167	42	13
CBT	65	--	38	27	26	39	--	1	2
TOTAL	3890	280	1519	2091	2521	1369	469	97	43

Part-Time Students

The number of part-time students as on 1st September 1994 was 290 (Male 231, Female 49)

Part Time	Total	280
	Men	231
	Women	49

COP/DOP/ADOP

	General	SC/ST	PH	Total
School of Languages	250	26	2 2	280

HALLS OF RESIDENCE

During the period under report the residents of the hostels continued to participate in hostel and mess management in accordance with the provisions contained in the Hostel Manual approved by the Executive Council of the University.

The students' strength in nine hostels and one Married Research Students Hostel of the University continued to be 2653 during the period under report. It includes SC/ST, physically handicapped and foreign nationals and 55 in Married Research Scholars Hostel.

A sum of Rs. 59,347.00 was disbursed among needy students out of the Students-Aid-Fund during this period.

The following were the functionaries of Inter-Halls Administration during the period under report:-

PROVOSTS

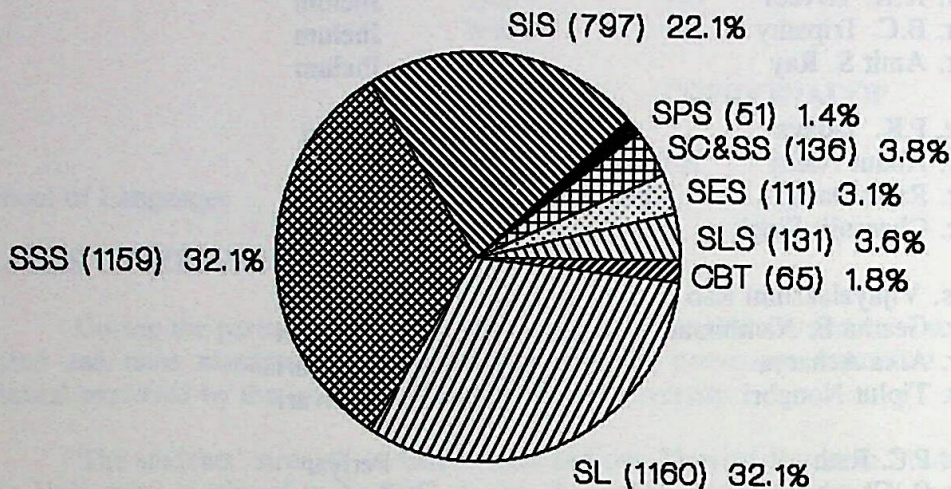
1.	Prof. Harjit Singh	Dakshinapuram
2.	Prof. G.V. Singh	Poorvanchal
3.	Prof. R.R. Krishnan	Uttarakhand
4.	Dr. Y.K. Tyagi	Pashchimabad

WARDENS

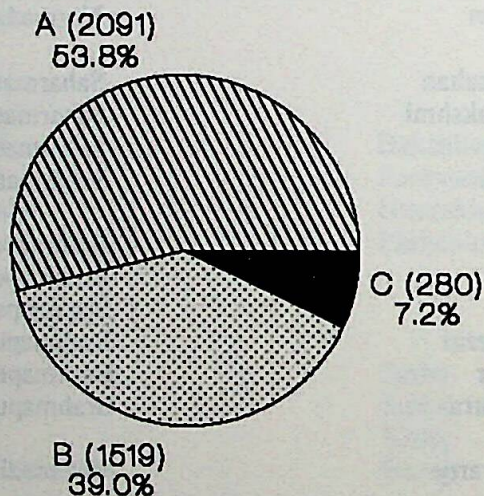
5.	Dr. P.S. Khillare	Sutlej
6.	Dr. P. Agrawal	Sutlej
7.	Dr. K. Warikoo	Sutlej
8.	Dr. K.J. Mukherjee	Sutlej

9.	Dr. (Mrs.) A. Chenoy	Ganga
10.	Dr. (Ms.) Madhu Bhalla	Ganga
11.	Mrs. H.P. Ray	Ganga
12.	Dr. (Ms.) Seema Alavi	Ganga
13.	Dr. S. Mukherjee	Jhelum
14.	Dr. K.K. Trivedi	Jhelum
15.	Dr. B.C. Tripathy	Jhelum
16.	Dr. Amit S. Ray	Jhelum
17.	Dr. P.K. Yadava	Kaveri
18.	Dr. Abdul Nafey	Kaveri
19.	Dr. Rajat Datta	Kaveri
20.	Dr. Charanjit Singh	Kaveri
21.	Ms. Vijayalakshmi Rao	Godavari
22.	Dr. Geetha B. Nambissan	Godavari
23.	Dr. Alka Acharya	Godavari
24.	Dr. Tiplut Nongbri	Godavari
25.	Dr. P.C. Rath	Periyar
26.	Dr. B. Ghoshal	Periyar
27.	Dr. M.P. Lama	Periyar
28.	Dr. Kanti Prasad Bajpai	Periyar
29.	Dr. H.B. Bohidar	Narmada
30.	Dr. K.B. Roy	Narmada
31.	Dr. Santosh Kar	Narmada
32.	Mr. A. Gajendran	Narmada
33.	Dr. (Ms) M. Chauhan	Sabarmati
34.	Dr. K.P. Vijayalakshmi	Sabarmati
35.	Dr. S.A. Hasan	Sabarmati
36.	Dr. M.D. Vemuri	Sabarmati
37.	Dr. S. Sinha	Brahmaputra
38.	Dr. R. Bhatnagar	Brahmaputra
39.	Dr. V.K. Jain	Brahmaputra
40.	Dr. R.N.K. Bamezai	Brahmaputra
41.	Dr. Anand Kumar	Brahmaputra
42.	Dr. B.N. Mohapatra	Brahmaputra
43.	Dr. S.R. Chakravarty	Mahanadi & Subansir (M.R.S.H.)

FULL-TIME STUDENTS IN SCHOOLS AS ON 1.9.1994 Total = 3610



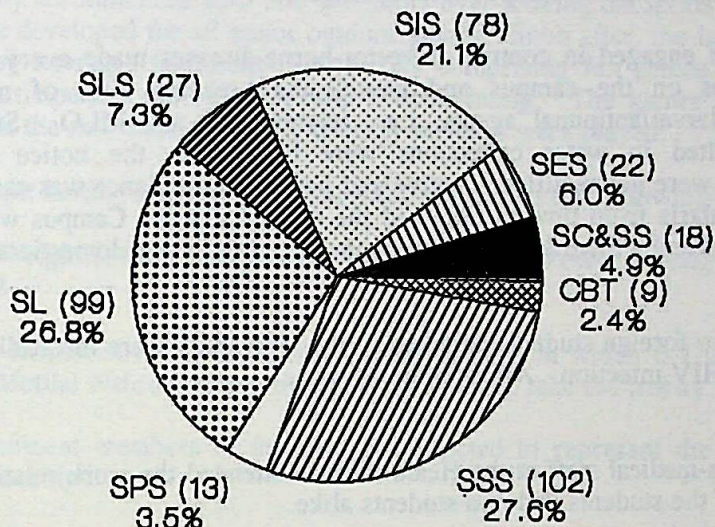
STUDENTS ON ROLLS AS ON 1.9.1994 : Total = 3890 Programme-wise Break-up



[Series A = M.Phil./Ph.D./M.Tech./MCH
Series B = MA/M.Sc./MCA/BA
Series C = DOP/COP]

Faculty : School-wise

Total Teachers: 370 (As on 12.05.1995)



UNIVERSITY HEALTH CENTRE

The objective of the University Health Centre is to provide quality health care to the students of the University especially those resident in the hostels. The health care encompasses preventive, curative and promotive services. Besides, health education is an important component of the health care system.

Health care in the out patient department was provided by the regular and part-time doctors, para-medical and other supporting staff of the Health Centre. Emergency service were provided by the regular medical officers of the University outside the Health Centre hours.

During the year 15130 patients reported in the OPD. Out of them, 9473 were new cases and 5657 old cases. In the evening service 2538 cases reported (1961 new and 577 old). No major outbreak of any disease occurred on the campus during this period except a scare of plague for which adequate steps were taken. The following numbers reported in speciality clinics; Dental 1866 (1584+282); Ophthalmology 2224 (1528+696); Internal Medicine 1687 (696+731+260); Skin 1105; Psychiatry and student counselling 125; Homoeo 5108 (2289 new and 2819 old). Free consultations were provided to members of the faculty, staff, domestic helpers, jhuggi dwellers and their families. This accounted for 50% of additional work load on the Health Centre.

The evening consultancy and pharmacy services have been extended in the Health Centre since 1st September, 1994 for students and staff members of the University. The evening counter provides essential medicines for immediate use.

Prevention of disease has been an integral part of health care activities. Prevention is discussed with the students at all levels particularly when they report sick. Family life education was imparted to those who came in distress. Information on AIDS and other public health problems was given through pamphlets. Lectures on family life education and prevention of malaria on the Campus were arranged.

The staff engaged in control of vector-borne-diseases made every effort to locate water collections on the campus and treated the breeding sites of mosquitoes with appropriate antilarval/antipupal agents, i.e., Baytex-1000 and MLO. Such engineering defects as resulted in water collections were brought to the notice of Engineering Department and were got rectified. Active and passive surveillance was carried out to find new cases of malaria from time to time and the residents of the Campus were informed of the steps to be taken by them to control mosquito breeding in the domestic and peridomestic surroundings.

Forty-two foreign students admitted to the University were medically examined and were tested for HIV infection. All reported negative.

The para-medical staff at the Health Centre attended the work relating to injections and dressings of the students and non-students alike.

Clinical and pathological investigations were carried out for the students in routine. Facility of the laboratory was made available to the University community other than students on nominal payment.

As part of malaria control programme, blood smears of 652 students and 8 employees were examined for malarial parasites. 37 positive cases of malaria were detected and treated as against 105 in the previous year. The decline was partly due to human effort and partly due to environmental and host of other factors.

SPORTS OFFICE

The Sports Office moved into the new Sports Stadium building in early August '94. The Sports Stadium building houses the Sports Office and the stores. It has seating stairs which could easily accommodate upto 500 spectators over-looking the sports field. This field is proposed to be developed for all major outdoor games. Soon after, the Independence day was celebrated by having a Childrens' Sports Day comprising fun games for various age groups. The participation and response was overwhelming. The games of Football and Cricket started on the new field and many friendly matches were played.

The Weight Lifting and Power Lifting Club conducted the following activities :

1. Festival Weight Lifting Competition and 5th Festival Power Lifting Competition in Aug.-Sept., 1994.
2. 5th Inter-Institutional Power Lifting Championships in which 6-7 institutions took part. JNU beat Motilal Nehru College by a solitary point to take the trophy.
3. Two prominent members of the club got selected to represent the Delhi State in National Championships.
 - (a) Manohar Joshi, a student of the School of Languages represented Delhi and secured VI place in Jr. Nationals at Patna, and (b) Ramesh Chandra Joshi, represented Delhi State in Masters National and secured IV position at Calcutta.
4. The annual Weight Lifting, Power Lifting & Best Physique competition was held in Jan-Feb, 1995.

The Mountaineering & Trekking Club conducted the following activities :

1. Trek to Chandratol in Himachal Pradesh by 20 students from 9-15 Sept '94; (2) Overnight Cycling Trip to Dam Dama by 22 students on 12-13 Nov '94; (3) Basic Rock Climbing Courses at Dhauj by 18 students from 20-23 Jan '95; (4) Cycling Trip to Sultanpur Bird Sanctuary by 30 students in Feb '95. The following programmes were conducted with the help and support by the National Adventure Foundation; (5) Basic and Intermediate Skiing Courses at Manali in 3 groups of 23, 15 and 5 participants in Jan '95; (6) White-Water Rafting on the Ganges in Rishikesh, (U.P.) in 4 groups of 32 students for 3 days each in March '95, and (7) Basic Kayaking Course at Rishikesh (U.P.) by 2 groups of 15 students again for 4 days each in March '95.

The Inter-School and individual Championships of the following games were conducted in Jan-Feb-March '95:

Football, Table-Tennis, Cricket, Volleyball, Badminton, Weight Lifting, Power Lifting and Best Physique, Basketaball, and Athletics.

The Sports Officer, Mrs. Damayanti V. Tambay captained the Indian Badminton team for the World Masters Games at Brisbane, Australia in Sept. Oct.'94 and won a Bronze medal in Ladies singles.

NSS UNIT

This was the twin Silver Jubilee Year of the National Service Scheme (NSS) movement and the Silver Jubilee year of the Foundation of the Jawaharlal Nehru University. This happy co-incidence was reflected in this year's programmes, in addition to the selectivity based on social relevance and quality, which has been the feature of the JNU's NSS activities in line with the university's unitary character.

Under the guidance of Prof. V. Asthana, Dean of Students, and Smt. Shantha Krishnan, Programme Co-ordinator, NSS unit, the areas selected for such concentrated activity were the following:-

1. A total Literacy Campaign in the campus named "Chirag Tale Andhera Hatao", mainly for the class IV Safai Karmacharis and their families. The NSS unit is continuing and consolidating this programme launched in the earlier years. Most of the women Safai Karmacharis have consequently become literate. It is programmed to guide them to enroll with the CBSE's Open School Programme leading to 10th and 12th class examinations.

Continuing the tradition of the earlier years, International Women's day, Teacher's Day, International Population Day, etc., were oriented in a manner relevant to the women safai karmacharis of the campus Literacy Programme (TLC).

A number of programme were taken up especially for the student-volunteers. One of them was a 5-day All India University Youth Camp at Mysore in the month of December, 1994. It was co-sponsored with a voluntary organisation Foundation for Amity and National Solidarity and with the University of Mysore and 250 students from 23 universities of the country participated.

CULTURAL ACTIVITIES

The Cultural Activities Committee co-ordinates Cultural Activities among the student community on the campus. These activities are promoted through various Cultural Clubs namely, Debating, Film, Drama, Fine Arts, Literacy, Music, Nature and Wild Life, Photography and UNESCO. Thus, the students are exposed to the World of literature, performing arts and to the flora and fauna around them. The following cultural events were arranged by different clubs during the period under report:

LITERACY CLUB

The Literacy Club organised a classical dance programme of Ms. Deepika Nagraj based on Indian Literacy text on 27th February in the SSS Auditorium. The programme was a rare event and an excellent example of fusion of the literature and performing art.

MUSIC CLUB

The Music Club organised a concert of 'Hindustani Classical Vocal' by Ustad Altaf Husain from Afganistan on 4th July, 1994, in the SSS Auditorium. He performed for three hours. Every body was happy to know the impact of Indian classical music on that of Afganistan. Moreover, the programme showed that music does not recognise geographical boundries.

The Club also organised a folk song and dance competition on 16th February, 1995.

FILM CLUB

The Film Club organised the follwing programmes :

- (1) A film festival from 7th September, 1994 to 14th September 1994;
- (2) A festival of foreign films from 1st to 10th February, 1995.
- (3) A festival of foreign films from 11-16 February, 1995.

UNESCO CLUB

1. A quiz competition was organised on 17th February, 1995. The prizes were distributed among the winners.
2. The foreign students of JNU organised an annual function at the Students Activity Centre on 5th April, 1995, and a get-together on 16th August, 1994.

DEBATING CLUB

A debating cometition was organised on 2nd November, 1994, in Ganga Mess on the topic 'Nehruvian Model of Economy'. Prizes were distributed among the winners.

DRAMA CLUB

In view of the Silver Jubilee Celebrations the JNU Drama Club organised a play "Jis Lahore Nahin Dekhya, Woh Janmya Hi Nahin" on 23rd March, 1995.

Chapter 9

STUDENTS' ACHIEVEMENTS

(a) Books

SCHOOL OF INTERNATIONAL STUDIES

1. Dawa Norbu with L. Kenadi, (CSCSEA&SWPS) *Revival of Buddhism in Modern India*, New Delhi: Ashish Publishing, 1995.
2. Ernest O.U.Moma, ed., *Iraq in the Nineties: Challenges and Prospects*, (CWAAS), New Delhi, 1994.

SCHOOL OF SOCIAL SCIENCES

3. Pradeep Kumar Nayak (CPS), *Party Politics and Communalism: A study of Ayodhya Dispute*, Ajanta Publishers, Delhi, 1994.

(b) Chapters contributed to books

CENTRE FOR BIOTECHNOLOGY

1. V.Gupta and R. Bhat (CBT), 1995, "Effect of Solvent Additives on the Thermal Stability of Insulin", M.J. Geisow and R. Epton (eds.), *Persepectives on Protein Engineering*, Mayflower Worldwide, UK 209-212.

SCHOOL OF SOCIAL SCIENCES

2. Nityananda Mandal, (CESP), "Unemployment and Social Development in India" Muchkund Dubey, (Ed.) *Indian Society Today: Challenges of Equality, Integration*

and *Empowerment*, Har Anand Publications, 1995, pp.92-108.

(c) Research Articles

SCHOOL OF LIFE SCIENCES

1. A.K. Singh, S. Chauhan and G.S. Singhal, "A simple and rapid aqueous methods for the purification of DNA from wheat chloroplasts" *Indian Journal of Biochemistry and Biotechnology*, 51-53.

SCHOOL OF PHYSICAL SCIENCES

2. Ashish Agarwal with R.Ghosh, "Two-photon squeezed laser with long-lived atoms", *Physical Review A*, Vol.50, pp. 1950-53, 1994.
3. Ashish Agarwal with R. Ghosh, "Study of four-wave mixing signals from dye-doped solids", in the special issue of *Communications in Instrumentation (CSIO, Chandigarh, 1995)*.
4. S.S.Jena with H.B.Bohidar, "Laser Immunoassay Analysis", Special issue on *Laser Application to Bio-medicine*, *Laser News* pp. 175-80, 1995.
- 4A. S.K.Nayak & R.Ramaswamy, "Melting of Mixed (Ar-Xe) Clusters", *Journal of Physical Chemistry*, Vol. 98, pp. 9260-67, 1994.
5. S.K.Nayak with R.Ramaswamy & C.Chakravarty, "The Maximal Lyapunov Exponent in Small Atomic Clusters", *Physical Review E*, Vol. 51, pp. 3376-3380, 1995.
6. T.Qureshi with S.Dattagupta, "A Stochastic Model for Transient Magnetic Fields as Observed by Perturbed Angular Distribution of Gamma Rays", *Zeitschrift Fur Physik B*, Springer Verlag, D31, pp. 135-142, 1994.
7. Anu Venugopalan, "Preferred basis in a measurement process", *Physical Review A*, Vol. 50, pp. 2742-45, 1994.
8. Anu Venugopalan with R.Ghosh & D.Kumar, "The quantum measurement problem : Nature of the apparatus", *Current Science*, Vol. 68, pp. 62-67, 1995.

CENTRE FOR BIOTECHNOLOGY

9. Poonam Salotra, Dinesh Chauhan, Ranju Ralhan and Rakesh Bhatnagar (1995) "Tumour necrosis factor alpha induces preferential expression of stress proteins in virulent promastigotes of *Leishmania donovani*". *Immunology Letters* 44(1995) 1-5.

SCHOOL OF SOCIAL SCIENCES

10. Krishnendu Ghosh Dastidar, (CESP), "On the existence of pure strategy Bertrand equilibrium", *Economic Theory*, 5, 1995, pp.19-32.
11. Praveen Kumar Jha, (CESP), "A Note on the Flexibility of Rural Labour Markets", *The Indian Journal of Labour Economics*, Vol.37, No.3, 1994, pp.561-67.
12. Sudipta Bhattacharya, (CESP), "Economic Liberalisation in India: One Step Forward - Two Steps Back", *Mainstream*, 18 March 1995, pp.
13. Krishna Soman (CSM&CH), "Trends in Maternal Mortality", *Economic and Political Weekly*, 1994, Vol.29, No.44, pp.2459-2460.
14. Alpana D. Sagar, (CSM&CH), "Health and the Social Environment", *Environ Impact Assess Review*, 1994, Vol.14, pp.159-175.

(d) AWARDS

SCHOOL OF LIFE SCIENCES

1. Dr. Meena Chandok received DST Young Scientist Project.
2. V. Haridas awarded (i) NII Young Scientist Award, Indian Society of Immunology, 1994, (ii) awarded travel grant from the International Union of Immunological Societies, to attend the 9th International Congress of Immunology, to be held at San Francisco, USA.
3. R. Mukhopadhyaya, (i) "Young Scientist Award" from the National Parasitology Society (Gold Medal and Citation), (ii) "Best Poster Award (Gold Medal and Citation), (iii) "M.B. Mirza Award". 1994.

CENTRE FOR BIOTECHNOLOGY

4. Ashutosh Tiwari (CBT) received Membership of the Protein Society (USA).

SCHOOL OF INTERNATIONAL STUDIES

5. Purwa, (CIPOD) Fulbright Fellowship, University of Colorado, USA.

SCHOOL OF LANGUAGES

6. Milind Brahma, (CGS), Fellowship, German Academic Exchange Service, New Delhi for collecting material for Ph.D. Thesis from October 1994 to September 1995.

7. Narender Kumar Rana, (CGS), Scholarship through German Academic Exchange Service, New Delhi to visit Universitat Hamburg, Germany to collect research material.
8. Rita Chatterjee, (CGS), Scholarship through German Academic Exchange Service, New Delhi to visit Universitat Gottingen, Germany for three months from October 1994.
9. Prem Lata Chandra, (CGS), Scholarship through German Academic Exchange Service, New Delhi to visit Universitat Gottingen, Germany From to collect research material.
10. Hem Lata and Harneet Chaddha (CJNEAL), won first & second prizes respectively in Junior Level North Region Japanese Language Speech Contest organised by the MOSAI & Japan Foundation in New Delhi on 9th November 1994.
11. Gopal Ohri and N. Lata (CJNEAL), won second & third prizes respectively in Senior Level North Region Japanese Language Speech Contest organised by MOSAI & Japan Foundation in New Delhi on 9th November 1994.
12. Hem Lata and Harneet Chaddha (CJNEAL), won first & second prizes respectively in Junior Level All India Japanese Language Speech Contest organised by MOSAI & Japan Foundation in New Delhi on 2nd March 1995.
13. Gopal Ohri (CJNEAL), won first prize in Senior Level All India Japanese Language Speech contest organised by MOSAI & Japan Foundation in New Delhi on 2nd March 1995.
14. Gopal Ohri (CJNEAL), visited Japan for winning 1st Prize in JLSC and obtaining highest marks in JLPT 1994 conducted by MOSAI & Japan Foundation jointly.
15. Vyjanthi Ratnam (CJNEAL), awarded one year scholarship for study of Japanese Language in Japan by Govt. of Japan.

(e) Participation in Seminars/Conferences, etc.

SCHOOL OF LIFE SCIENCES

1. Geetanjali Sachdeva and Gurvinder Kaur, participated and presented posters in the annual Conference of Indian Society of Cell Biology, Lucknow, 1995.
2. Alka Bhalla, presented a paper in the Annual Conference of Indian Society of Cancer Research, Shillong, 1995.
3. Shiva Prakash, N, participated in the IUBMB, India, New Delhi, September, 1994.

4. Ranjana Sharma, participated in the IUBMB, India, New Delhi, September, 1994.

CENTRE FOR BIOTECHNOLOGY

5. Ms. Anuradha Nickkawade, participated in the 16th International Congress of Biochemistry and Molecular Biology, New Delhi, Sept. 18-22, 1994.
6. Ms. Adhuna, participated in Workshop on Cultivation of parasites of Biomedical Importance, CDRI, Lucknow, 28th Nov. to 10th Dec. 1994.
7. J.K. Kaushik (CBT), participated in 16th International Congress of Biochemistry and Molecular Biology, New Delhi. Sept. 19-22, 1994, presented paper on "Effect of trehalose on the denaturation of some globular proteins".
8. G.M. Vani (CBT), participated in the 16th International Congress of Biochemistry and Molecular Biological Activity and Secondary Structure Formation".

SCHOOL OF INTERNATIONAL STUDIES

9. S.K. Soni, (CSCSEA&SWPS), presented paper on "Incorporation of Tannu Tuva into the USSR and Mongol Response", International Conference of Mongolists, February 20-24, 1995, New Delhi.

(f) Visits abroad

SCHOOL OF LANGUAGES

1. Anurag Kashyap (CJNEAL), invited to visit 18 countries over a period of one year by "Up with People" a U.S.A. Organisation.
2. Mr. Mukesh Ranjan (CLE) visited University of California and Harvard University, Cambridge on Fulbright Fellowship for Doctoral Research.
3. Avatans Kumar (CLE) has gone to the University of Illinois as TA.
4. Piyush Mathur (CLE), has gone to Virginia Polytech, USA.
5. Priya Kumar (CLE), has gone to the University of Montreal, Canada.

Chapter 10

AWARDS AND ACADEMIC DISTINCTIONS

Faculty members of the University received various awards/honours/accolades and national and international recognition for their scholarship and academic achievements in various disciplines of their specialization during the period under report. A mention may be made of the following:

SCHOOL OF ENVIRONMENTAL SCIENCES

P.S. Ramakrishnan, (i) Nominated interim Chairman of the prestigious international programme 'DIVERSITAS', jointly operated by IUBS, SCOPE and UNESCO, Paris, 1995 (ii) Invited Planning Committee member of the elaborated DIVERSITAS programme involving ICSU, Paris, IUBS, SCOPE, UNESCO and other interested international bodies, 1995 (iii) Member, Working Group IPCC (Intergovernmental Panel on Climate Change (1994-95) (iv) Member, Advisory Committee on Biodiversity and Global Change of the International Union for Conservation of Nature (IUCN), 1994-95. (v) Ecology Advisor and Steering Committee Member, Government of Nagaland Project on "Development of Sustainable Landuse Options for Shifting Cultivators" 1995- 98; (vi) Member, Advisory Committee D.S. Kothari Centre for Science, Ethics and Education, Delhi University, 1995-96; (vii) Chairman, Human Dimension Programme (HDP) of International Geosphere Biosphere Programme, Indian Component, INSA (1995-97). Continues to be; (viii) Member with voting rights, Executive Committee of the International Union of Biological Sciences (IUBS) 1994-96; (ix) President, Ecotransformation Centre 1995; (x) Chairman, Indian National Committee of the IUBS, INSA (1994-97); (xi) Vice-Chairman, Board of Management, Tropical Biology and Fertility Programme (TSBF), an international programme of UNESCO and IUBS 1993-96; (xii) Member, Steering and Planning

Committee of the international programme of SCOPE (Scientific Committee on Protection of Environment), Paris on "Sustainable Biosphere Project 1995; (xii) Member, Steering Committee on 'Global Change and Terrestrial Ecosystems' (GCTE) of the International Geosphere Biosphere Programme (IGBP) ICSU, Paris (1994-96); (xii) Expert Member: Global Biodiversity Assessment, United Nations Environment Programme (UNEP); (xiii) Invited by the Indian National Science Academy on behalf of FASAS (Federation of Asian Scientific Academies and Societies) to organize a symposium on 'Conserving Biodiversity through Sustainable Development' in Kuala Lumpur, Malaysia, 5-7 December 1995 and currently working in its organisation.

Syed. I. Hasnain, European Union Fellowship, University of Manchester, UK.

J. Behari, DAAD Fellowship Fraunhofer Institute, St. Ingbert, Germany (Jan. 25 - April 14, 1995).

SCHOOL OF LIFE SCIENCES

Asis Datta, (i) "FICCI award for R & D in Life Sciences", 1994; (ii) Platinum Jubilee Lecture Award of the Indian Science Congress.

M. Habibulla, (i) Royal Society Fellowship to lecture at Oxford, Cambridge and Edinburgh, awarded by Royal Society London and the British Foreign Office (Fortrand), London, (ii) INSA-DFG Fellowship to lecture at Max Plank Institute, Seewissen, Germany, University of Tübingen, Germany, University of Goethe, Frankfurt Germany, etc. Awarded jointly by INSA of India and DFG of Germany, (iii) International Brain Research Organisation and UNESCO award for visiting any Institute on Brain Research, including the one at Vienna, Austria.

R.K. Saxena, (i) Invited to join the Editorial Board of the American Journal "Natural Immunity, which is the official journal of the international "Society of Natural Immunity" USA, (ii) Invited under the Scientist Exchange Programme of National Institute of Health, USA, to conduct collaborative experiments at the National Institute of Aging NIH, for a period of two months.

Alok Bhattacharya, (i) "S.S. Bhatnagar Award in Biological Sciences", 1994, (ii) "Welcome Trust Fellow", 1995.

R. Madhubala, (i) "Indian Scientist Award to attend the International Union of Biochemistry meet at New Delhi in Sept. 1994, (ii) "Chaired a scientific session of Biochem. and Mol. Biol. of Parasites in XII National Congress of Parasitology at Goa from 23-25 Jan., 1995, (iii) "Selected as a member of the Executive Committee of the Indian Society of Parasitology, (iv) Selected as a member of Editorial Board of Indian Journal of Parasitology, (v) Invitation to attend Canadian Conference of Polyamines of NIH 1995.

B.N. Mallick, Invited by Prof. J.M. Siegel, Neuropsychiatry Institute, University of California, Los Angeles, USA as a Visiting Associate Professor during the period May-July, 1995. (for collaborative research in the field of REM sleep).

Neera Bhalla Sarin, IUBMB award to the Indian Scientists, IUBMB, India.

B.C. Tripathy, "NASA Fellowship, Kennedy Space Centre, Florida, USA.

CENTRE FOR BIOTECHNOLOGY

H.K. Das, "Shri Om Prakash Bhasin Award for Science and Technology, 1994."

SCHOOL OF INTERNATIONAL STUDIES

H.S. Prabhakar, (CEAS), "Japan Foundation Fellowship" University of Tokyo, Tokyo, and Osaka International University, Hirakata.

Yogesh K. Tyagi, (CSDILE), "Stimson Fellowship", The Henry L. Stimson Centre, Washington, DC., USA.

SCHOOL OF LANGUAGES

Rita D. Sil, (CFS), Financial assistance of the cultural wing (Travel grant both ways), Ministry of Human Resource Development to participate in the International Seminar on the "European Legacy: Towards the new paradigm" Organised by the International Society for the Study of European Ideas, 22-27 August 1994 at Graz, Austria.

S.Ramakrishna, (CFS), Elected Zonal President of the Indian Association of Teachers of French, Nov.1994 IATF, Pune. Faculty Enrichment Fellowship, Shastri Indo-Canadian Institute, New Delhi June 1994.

Kiran Chaudhry, (CFS), "French Government Fellowship" , France.

Abhijit Karkun, (CFS), "French Government Fellowship."

Dr. R. Dingle, (CGS), DAAD Fellowship to do Post-Doctoral Research at University of Bonn, Germany.

Prem Motwani, (CJ&NEAL), Matsushita Foundation Research Grant, Japan, for 3 years for conducting field work in Japan in connection with the project "A complete Guide to Loanwords in Japanese".

Prem Motwani, (CJ&NEAL) Appointed as "Honorary Research Associate (non-resident) by the Okinawa International University, Institute of Ryukuan Culture, Okinawa, Japan, for a period of 2 years (April 1995 to March 1997)

P.A. George, (CJ&NEAL) "Japan Foundation Fellowship", Waseda University, Tokyo, Japan.

Ania Loomba, (CLE), Mellon Fellowship, Stanford University, USA.

Franson Manjali, (CLE), "Associateship" of the Indian Institute of Advanced Study, Shimla (1994-1996).

Harish Narang, (CLE), Appointed Honorary Director, Institute of African Studies, New Delhi.

Satya Bhushan Verma, (CEAL) elected President, Indian Scientific Translators Association (ISTA); (ii) elected President, Indian Congress for Asian & Pacific Studies (ICAPS); and (iii) elected Vice-President, Siraiki Sahitya Sangam and editor, "Siraiki International".

SCHOOL OF SOCIAL SCIENCES

Majid Siddiqi, (CHS), invited Membership, 1995, joined New York Academy of Sciences.

Ahmad, A., (CSRD), (i) Chairperson, National Committee on Geography, Indian National Science Academy, 1994-97; (ii) Member, National Committee, Indian National Science Academy, 1994-97.

Yogendra Singh, (CSSS), "Swami Parmanand Award in Sociology and Social Anthropology", National Science Academy, New Delhi.

Binod Khadria, (ZHCES), awarded Fulbright American Research Fellowship (ARFP 1994-95) by USIA through US Educational Foundation in India at Institute for Economic Development, Boston University, USA.

Chapter 11

UNIVERSITY ADMINISTRATION

The Jawaharlal Nehru University completed 25 years of its fruitful existence in November, 1994. The year-long programme of Silver Jubilee Celebrations was inaugurated by JNU Chancellor, Shri P.N. Haksar, on 14th November, 1994. In his message the President of India, Dr. Shankar Dayal Sharma, as Visitor of the University, hailed the multi-disciplinary approach of the University and expressed the hope that the University will continue to produce socially conscious students. Dr. Sharma described the University as a testimony to secularism, social justice and national integration. He said that the academic activities of the University have been socially relevant and the University has been able to evolve its ethos over the years.

The Silver Jubilee Celebrations consisted of seminars, symposia, panel discussions, lectures, workshops and cultural programmes organised by various Schools/Centres on the campus. Some of the programmes have already been held and some are under way. A number of research students have started a documentation project on JNU in the last 25 years.

The annual meeting of the JNU Court, the supreme authority of the University was held on 10 June, 1994, under the Chairmanship of the Chancellor, Mr. P.N.Haksar. It received the report on the working of the University and audited statements of Receipts and Expenditure as well as the Balance Sheet of the University for 1993-94. The non-plan maintenance budget of the University was also presented.

The Executive Council of the University met four times during the period. In its meetings held on 3rd June, 12th September, 1994, 12th January, and 10th May, 1995, the Executive Council deliberated upon a number of agenda items and took important decisions on administrative matters.

The Academic Council had three meetings (26th August, 15th December, 1994 and 27th January 1995) and took important academic decisions including those to be placed before the Executive Council. There were two meetings (6th December, 1994 and 2nd May, 1995) of the Finance Committee to approve budget estimates, revised audited accounts of the University and some other important financial matters.

The University decided to give weightage to the OBC candidates desirous of getting admission for various programmes of study at the University in the Entrance Examination from the academic session 1995-96. The weightage did not exceed 5 deprivation points in the case of male OBC candidates and 10 points in the case of female OBC candidates. Income tax payers and those belonging to 'creamy layers' were not eligible for this concession. The University identified 233 specific districts by levels of development in 21 States and the Union Territory of Dadra and Nagar Haveli for this purpose. Lists of such districts were prepared on the parameters of literacy rate, proportion of agricultural workers and agricultural productivity. The deprivation points depended on the level of development of the areas from which the candidates got their qualifying degrees.

The University also decided to introduce a new two years' Master's Programme in Economics (International) from 1995-96 with funds from Ford Foundation and some supplementation from the University. The purpose of this new programme was to provide a sound theoretical background in the principles of Economics and to equip the students with the analytical tools for understanding the evolution of the world economy. Special emphasis was placed on global issues like environment, technology development and transfer and information economics. This programme was introduced in the International Trade and Development Division which is a part of the Centre for Diplomacy, International Law and Economics at SIS.

The University has accepted an offer from the Ministry of Human Resource Development to institute the Rajiv Gandhi Chair for Studies in Peace and Disarmament at JNU. In addition to the endowment grant of Rs.45 lakhs, a lump sum grant of Rs.2 lakhs will also be released for recurring research expenses. The University proposes to invite nominations from eminent persons and institutions around the world for appointment to the Chair. The Academic Council of the University has decided that an eminent scholar should be identified who is able to contribute significantly to the intellectual life and academic ambience of the University. This appointment to the Chair shall be for a period of six months to one year depending upon the scholar's availability. This Chair would be placed at the University level and the scholar thus selected would be given the option to choose his/her affiliation depending upon the project and academic discipline.

The Planning Commission endowed "Sukhamoy Chakravorty Chair in Economics" together with a Unit at the University to promote studies and research in Planning, Development and related issues. The Planning Commission has provided a grant of Rs.40 lakhs for creating the endowment. Located at the Centre for Economic Studies and Planning in SSS, the Chair has been instituted to commemorate the memory of one of

the most distinguished and dedicated economists of the country.

The Department of Electronics (DOE) has offered to set up satellite dish antenna on top of the nine-storey building of the Central Library, free of cost in lieu of the space provided for the dish antenna. With this, JNU will be the first University in India, except the Indian Institute of Technology, to be linked with global data base through Internet.

After acquiring this facility, JNU administration hopes to make the University self-contained Informatics Centre in itself by connecting the Schools with the Library in communication with other libraries in India as well as with other parts of the world.

Prof. Tapas Majumdar, a distinguished scholar and former Professor of Economics at JNU was conferred with the title of Professor Emeritus for his outstanding contribution to research and teaching at the University.

During the period under report, a number of delegations and important dignitaries visited JNU. They included : The Crown Prince of Nepal, His Royal Highness Dipendra Bikram Shah Dev, Vice-President for International Relations of Srinakharinwirot University, Thailand, Dr. Samang Hiranburana, Deputy Chairman of Russian Federation on Youth Affairs, Mr. Bunkov, Deputy Head, International Development, Mr. Nikolai Sorgashev and Chairman of the Committee on Youth Affairs Ms. Anfinogentova Anna Petrovna, former Secretary General, International Civil Aviation Organisation (ICAO), Dr. S.S. Sidhu, the Vice-Chancellor of Oxford University, Dr. Peter North and host of other dignitaries.

A fellowship scheme was instituted for meritorious JNU students for pursuing studies/research in any of the areas of specialisation bearing on Japan or on Indian relations with Japan with a view to furthering and strengthening relations between the two countries. The fellowship scheme has been instituted in the name of the well-known Japanese statesman and economist, late Dr. Sabiro Okita, the distinguished recipient of Indira Gandhi International Prize for Peace, Disarmament and Development. Dr. Okita had desired that the prize money of Rs.25 lakhs be put into a corpus fund to support the fellowship scheme to JNU students pursuing research at the Centre for South Central, South East Asian and South West Pacific Studies in the School of International Studies, the Centre for East Asian Languages in the School of Languages or the Centre for Economic Studies and Planning in the School of Social Sciences. The studies/research should be in the issues connected with technology, trade and macro policy and inter-cultural studies.

During the period under report, two amendments were made in the University Ordinances relating to creation of School/Centres of Study and terms and conditions of the appointments and duties of Provosts/Senior Wardens/Wardens. Six amendments/revisions were made to rules/regulations relating to allotment of houses to post-doctoral fellows, etc., certain clauses of the hostel manual, grant of maternity leave to non-teaching staff, revision of rates for non-duty journeys in respect of University vehicles, rules relating to recruitment to the non-teaching staff and allotment of houses. Three new ordinances relating to the International Centre for Genetic Engineering and Bio-technology, Nuclear

Science Centre and award of Master of Technology (M.Tech.) in the Defence Engineering institutions were introduced. Three foreign nationals joined the University under various cultural exchange programmes -- one each from Korea, Spain and Portugal.

A number of Selection Committee meetings (57) were convened for recruitment of teachers during the period under report. For non-teaching staff 18 Selection Committee meetings and sixteen meetings of the DPC were convened for recruitment/promotion.

A total of 14 teaching appointments were made during the period Professors: 10, Associate Professors: 3, and Asstt. Professor: 1. Of these 7 teachers (Professors : 6 Associate Professor 1) joined the School of Social Sciences; 3 teachers joined School of International Studies, two School of Environmental Sciences and one each in School of Life Sciences and School of Languages.

Three teachers retired from the service of the University during the period. They included 2 Professors, and 1 Associate Professor.

Ten faculty members (Professors-8 and Associate Professor-2) were re-employed after their superannuation or granted extension for re-employment. A total of 41 teachers were granted Sabbatical Leave/EOL or extension of leave. They proceeded on leave for various purposes -- to complete their doctoral research, to write books/monographs -- or to do research/accept employment elsewhere/fellowships.

Three teachers resigned from the service of the University during the period. They included two Associate Professors and one Asstt. Professor.

Five meetings of the House Allotment Committee were held during the period and allotments of residences were made to teaching and non-teaching staff of the University. Residences in the Paschimabad were also allotted and a number of residences have since been occupied by the employees. The area is fully developed.

The Canteen Committee also held five meetings and canteens/shops, etc., were allotted for providing facilities to the JNU community. A Mother Dairy booth for supply of milk was also constructed and made functional.

Seventy five employees of the University were granted Conveyance Advance during the period amounting to Rs. 13 lakhs.

Ten teachers/employees of the University were given House Building Advances ranging from Rs. 50,000/- to Rs. 2,50,000/-.

Information relating to appointments/confirmations/resignations/re-employment/grant of leave in respect of teachers is given in Appendix-VIII.

A memorandum was signed with the Kieve Institute of International Relations, Republic of Ukraine, providing for exchange of faculty, research scholars, literature and holding of joint seminars. The University has now approached the UGC for necessary funds for its implementation.

Efforts were made to make JNU a garbage-free-campus by involving a non-governmental and non-profit making organisation (SRISHTI) who was entrusted with the work of garbage disposal. They undertook the project of removal of garbage from various dustbins/dumps located on the campus. The arrangement is working satisfactorily and efforts are on to make campus a "zero" garbage area.

The University hosted the Xth General Conference of the International Association of Universities (IAU) in New Delhi in February, 1995. About 225 Heads of Universities participated in this Conference, organised by a Committee working under the Chairmanship of the distinguished scientist, Prof. P.N. Srivastava, a former Vice-Chancellor, JNU. Delegates from 79 countries participated in the four-day Conference which was inaugurated by JNU Chancellor. It is the first time that the Conference was held in Asia. The theme of the Conference was 'Global Civilisation and Cultural Roots'.

The University has instituted an endowment fund for SC/ST students out of a collection of increased rates for application forms and booklets amounting to Rs.4 lakhs. The University has also setup two special fellowships for SC/ST students at Ph.D. level to support these students. The Department of Social Welfare is funding a new hostel with a view to providing accommodation for SC/ST students.

The University allotted 2.5 acres of land to Navodaya Vidyalaya Samiti to construct an indoor auditorium with adequate capacity to accommodate 1500 persons as well as other facilities like seminar complex, deep water wells, etc., and the same shall be available for the use of JNU.

The Department of Electronics (DOE) has offered to set up satellite dish antenna on top of the nine-storey building of the Central Library, free of cost in lieu of the space provided for the dish antenna. With this, JNU will be the first University in India, except the Indian Institute of Technology, to be linked with global data base through Internet.

After acquiring this facility, JNU administration hopes to make the University self-contained Informatics Centre in itself by connecting the Schools with the Library in communication with other libraries in India as well as with other parts of the world.

The University has a total number of 1710 employees -- 370 teachers and 1340 non-teaching staff including Safai Karamcharis. Of the 370 teachers, 149 were Professors, 139 Associate Professors and 82 were Assistant Professors. This also includes Senior Fellows and Fellows. In the non-teaching category of 1340 employees, 83 were in Group 'A', 172 in Group 'B', 496 in Group 'C' and 467 in Group 'D'. The strength of Safai Karamcharis was 122. Among the teaching staff, 12 belonged to reserved

category while among the non-teaching staff, 353 belonged to SC/ST category. A total number of 654 housing units were provided to both the teaching and non-teaching staff on the campus.

The administration is making efforts to seek financial assistance of Rs. 2 crores from the Ministry of Welfare to construct a hostel of 200 rooms for SC/ST students.

Prof. Moonis Raza, an eminent Indian Social Scientist and Professor Emeritus at JNU, passed away on 18th July, 1995 in a Boston Hospital, (USA) after protracted illness.

COMPUTER ACTIVITIES

The following jobs which were in designing/development stage were completed.

1. **Fee Collection Register Maintenance System:** This software was designed and developed for computerising the student's fee collection records. Like any user-friendly software, this software is a fully menu-driven software. In July 1994, this software was made operational and since then it has been under regular use by the Students Section of the Finance Department.
2. **Database of Faculty Publications:** On the Silver Jubilee occasion of the University, P.R.O.'s office collected data on various academic publications of the faculty members of the University during the last five years. In order to maintain this data in a database format, a software was developed. Like any other user-friendly software, this software also has the menu-driven provision for the activities such as data entry, data editing, data viewing on screen, and report generation. Under report generation, the user can get draft printing for checking purpose. In this mode, the user can specify the range of records to be printed. Under final report generation, the software automatically sorts, data on nature of publication, School/Centre, author's name and year of publication to generate a text which can be printed through any word processor.
3. **Seniority List Database for Non-teaching Staff :** To serve the specific purpose of the Cadre Review Committee, as per the requirements of the Finance Officer, a software to maintain the data fields specified by him was designed. A database management software was designed and developed for maintaining certain essential data. This database can be sorted in any desired order for the purpose of data viewing or for printing the statements. Data related to the University employees belonging to the groups A, B, & C were entered.
4. **Research Projects Database Maintenance System :** A system was designed and necessary software developed for maintaining detailed data on each and every research project in the form of a database. This software is also totally menu-driven working under MSDOS environment. It gives an option to the user, to create the database either on the hard disk or on the floppies. In the report generation module, it has facility to create various types of statements. As per the user department's growing requirements,

one can go on adding new types of reports to be generated. The software would be tested and finalised as soon as the concerned user department feeds test data.

Apart from developing these new softwares, maintenance of the earlier developed softwares is also one of the major responsibilities of the computer unit.

HINDI UNIT

The Hindi Unit organised a 5-day workshop for giving training in Hindi Noting and Drafting for the benefit of different categories of the ministerial staff working in the University. The workshop was conducted from 5th to 9th September, 1994, in collaboration with the Central Hindi Institute, New Delhi. Sixteen members of the staff participated in it. The participants appeared in a test at the end of the workshop. The Vice-Chancellor, Prof. Y.K. Alagh gave away cash prizes to those who secured the first three positions and a special prize for an employee belonging to a non-Hindi speaking area. All the participants were awarded certificates.

The Unit celebrated Hindi Day on 14th September, 1994, with the Vice-Chancellor as the Chief Guest. Shri Shankar Dayal Singh, Member of Parliament and Vice-Chairman, Parliamentary Committee on Official Language, gave a key-note address. Prof. Namwar Singh, Chairman, Raja Rammohun Ray Library Foundation and Prof. Manager Pandey, Chairperson, Centre of Indian Languages, addressed the participants and invited guests.

The Unit also undertook translation work of the Annual Report, Annual Accounts, Audit Report besides Admission Notices, Advertisements for recruitment, Notifications/Circulars, Press Communiques, Rules etc.

PUBLIC RELATIONS OFFICE

As in the previous years, the Public Relations Office of the University issued a number of press releases on various activities, forwarded press clippings of reports and complaints appearing in the press as feed-back to the University administration and issued proper clarifications/rejoinders, wherever necessary.

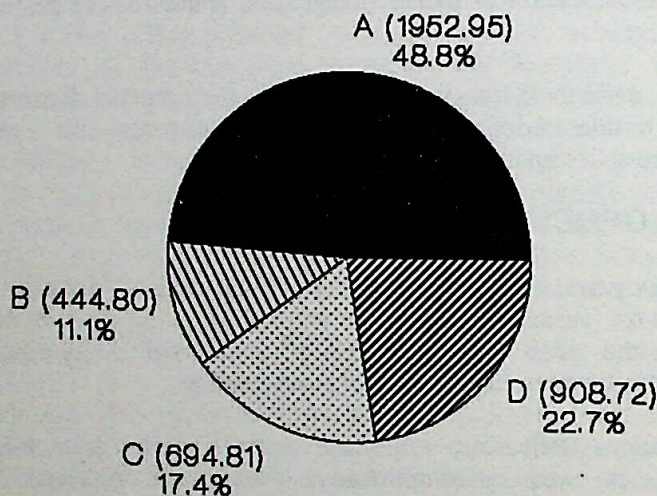
The Public Relations Office also responded to the queries from the public relating to the academic as well as administrative matters and received important visitors and delegations to the University. Replies to written queries were also sent to those who sought information regarding various aspects of the University functioning, admission procedure, entrance test, programmes of study etc.

The University's monthly newsletter *Campus Newsletter* continued to come out regularly during the year under report.

GUEST HOUSES

The two Guest Houses - Aravali and Gomti - accommodated a large number of guests during the year under report. They included teachers and research scholars who came to Delhi from various Universities and educational institutions from India and abroad for collection of the research material or other academic pursuits. Official guests of the University, guests of the faculty/staff, parents of students and UGC guests were also provided accommodation for varying short periods. The total revenue from both the guest houses touched Rs.10 lakh.

University Finance : Receipts (1994-95) Rs.4001.28 lakhs



[A=Maint.(Non-Plan) Grant; B=Development (Plan) Account; C=Earmarked (Special) Fund Account; D=Debt, Deposits etc.A/c.]

Chapter 12

UNIVERSITY FINANCE

1. SYSTEMS OF ACCOUNTS AND AUDIT

The Accounts of the University are maintained in four distinct parts:-

- A. Maintenance (Non-Plan) Account** deals with the revenues receipts and maintenance expenditure of the University.
- B. Development (Plan) Account** deals with the development of the University met out of the Five Year Plan Allocation.
- C. Earmarked (Special) Fund A/c.** deals with the transactions in connection with the specific research projects, conferences and other specific purposes funded by various Central Government Departments, UGC, ICSSR, CSIR, etc.
- D. Debt., Deposits, etc., Account** deals with the receipts and payment in connection with the Provident Fund and other Deposits.

The financial year of the University corresponds with that of the Government, i.e., from 1st April to 31st March of the subsequent year. The accounts of the University are annually audited by the Director of Audit, Central Revenues (DACR) on behalf of the Comptroller and Auditor General of India. In accordance with the Government of India instructions, the audited accounts of the University are required to be placed on the table of the Parliament by 31st December of the following year. The Audited accounts (in Hindi and English version) of the University for the year 1993-94 have already been sent to Ministry of Human Resource Development on 11.7.95 for placing on the table of Parliament.

The Annual Accounts of the University for the year 1994-95 have already been sent

to D.A.C.R. The audit of the accounts for 1994-95 is to be taken up by the D.A.C.R. Audit Party on 18.7.1995.

II. BUDGET

The Budget Estimates of the University for the year 1995-96 and the Revised Estimates for 1994-95 were sent to the University Grants Commission on 13th December 1994.

Summarised Budget Estimates, Revised Estimates and Actuals for Receipts and Expenditure 1994-95 are given in table I and 2 below :-

TABLE - 1

RECEIPTS (Rupees in Lakhs)

Head of Account	Budget Estimates 1994-95	Revised Estimates 1994-95	Actuals for 1994-95
1.Maintenance (Non-Plan) Account	2158.29*	2163.69*	1952.95
2.Development(Plan) Account	440.51	765.85	444.80
3.Earmarked (Special) Fund Account	487.00	481.10	427.80 267.01@
4.Debt., Deposits, etc., Account	469.87	654.18	908.72

TABLE - 2

EXPENDITURE

(Rupees in Lakhs)

Head of Account	Budget Estimates 1994-95	Revised Estimates 1994-95	Actuals for 1994-95
1.Maintenance (Non-Plan) Account	2158.29*	2163.69*	1912.48
2.Development(Plan) Account	440.51	765.85	232.48
3.Earmarked (Special) Fund Account	674.25	507.52	407.16
			255.96@
4.Debt., Deposits, etc., Account	504.08	689.43	845.73

* Including Fellowship.

@ Budget provision on account Fellowship made under Maintenance grant but expenditure separately shown under Earmarked Fund Account.

III. Summary of Maintenance (Budget) Expenditure

Table 3
(Rupees in Lakhs)

Actuals 1993-94	Head of Account	Budget Estimates 1994-95	Revised Estimates 1994-95	Actuals for 1994-95
137.97	Administration	152.30	156.65	152.63
338.47	Common Services and General Charges	386.87	404.00	385.23
547.73	Academic Programmes	654.97	623.78	606.35
9.92	Examinations	8.19	7.04	14.23
106.66	Library	181.62	131.79	182.79
30.70	Students' Facilities	29.36	33.14	34.57
194.39	Scholarships & Fellowships	264.36	282.11	13.30@
48.68	Students' Hostels	52.41	53.33	53.99
3.90	Publications	9.36	6.83	2.30
189.42	Other Departments	199.82	209.40	214.55
119.89	Miscellaneous	131.53	156.12	165.22
74.04	Provident Fund and Pension	86.50	98.50	86.32
1.00	Depreciation Reserve Fund	1.00	1.00	1.00
1862.77	TOTAL	2158.29	2163.69	1912.48

@ Scholarships only. Expenditure of Rs. 255.96 on Fellowships shown under Earmarked Fund Account.

IV. DEVELOPMENT (PLAN) EXPENDITURE

The major items of Development expenditure for the year 1994-95 were as under:-

(Rupees in Lakhs)

1.	Revenue (Recurring Expenditure)	118.88
2.	Construction of University Campus -	
A.	i) School Building	4.46
	ii) Library Building	1.36
	iii) Residential Building	22.60
	iv) Miscellaneous Building	0.88
	v) External Services	13.72
	Total-A	43.02
B.	Other Capital Expenditure-	
	i) Equipment	47.24
	ii) Library Books & Journals	19.59
	iii) Telephones	0.26
	iv) Vehicles	3.49
	Total-B	70.58
	TOTAL EXPENDITURE	232.48

V. RESEARCH PROJECTS

The University has at present 150 on-going Research Projects and the total grants received and the expenditure incurred (during the year 1994-95) on the research schemes/projects funded by the various agencies are as under:

	NAME OF THE FUNDING AGENCY	NO.OF PROJECT	RECEIPT (in Rupees)	PAYMENT
1.	UNIVERSITY GRANTS COMMISSION	13	336000.00	468729.88
2.	DEPTT. OF SCIENCES AND TECHNOLOGY	29	6565421.00	4115641.64
3.	DEPTT. OF BIO - TECHNOLOGY	21	8035873.00	12978264.06
4.	DEPTT. OF ENVIRONMENT	8	1235720.00	884937.92
5.	DEPTT. OF ELECTRONICS	1	100000.00	135400.50
6.	DEPTT. OF ATOMIC ENERGY	4	255200.00	356101.37
7.	PLANNING COMMISSION	4	133900.00	101651.25
8.	MINISTRY OF EXTERNAL AFFAIRS	3	75000.00	83313.00
9.	DEPTT.OF WOMEN & CHILD DEV.	2	0.00	45965.50
10.	MINISTRY OF WELFARE	1	68814.00	89867.35
11.	MINISTRY OF URBAN DEVELOPMENT	1	671000.00	288141.30
12.	DEPTT. OF SPACE	1	0.00	36389.80
13.	MINISTRY OF TEXTILES	1	89824.00	65750.00
14.	MINISTRY OF DEFENCE	1	310000.00	15750.00
15.	INDIAN NATIONAL SCIENCE ACADEMY	1	10000.00	10000.00
16.	NATIONAL ARCHIVES OF INDIA	1	0.00	7240.00
17.	JAWAHARLAL NEHRU CENTRE FOR ADVANCED SCIENTIFIC RESEARCH	1	0.00	201329.36

18.	SHASTRI INDO-CANADIAN INSTITUTE	1.	55000.00	17558.45
19.	CENTRAL BOARD OF POLLUTION CONTRL.	1	41000.00	2000.00
20.	NUCLEAR SCIENCE CENTRE	1	0.00	38959.54
21.	NATIONAL THERMAL POWER CORP.	1	0.00	1003.50
22.	NATIONAL SERVICE SCHEME	1	0.00	123726.60
23.	NATIONAL SCIENCE FOUNDATION	1	0.00	388115.96
24.	UNITED NATIONS POPULATION FUND	1	150000.00	150000.00
25.	FORD FOUNDATION	1	406088.50	140470.95
26.	INTERNATIONAL DEV. RES. CENTRE	1	288750.00	15644.50
27.	U. N. I. C. E. F.	1	25000.00	47639.00
28.	U. N. E. S. C. O.	1	62359.00	81210.40
29.	INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE	1	218392.00	168989.25
30.	EUROPEAN ECONOMIC COMMISSION	1	1628261.00	735809.36
31.	S.N. BOSE RESEARCH INSTITUTE	1	10000.00	1850.00
32.	CENTRE OF DEVELOPMENT STUDIES	3	248000.00	168724.48
33.	GLOBAL DERMATOLOGICAL LAB.	1	165000.00	175495.88
34.	C. S. I. R.	17	1314588.00	1763332.35
35.	INDIAN COUNCIL OF MEDICAL RES.	2	677870.00	385331.30
36.	INDIAN COUNCIL FOR HISTORICAL RESEARCH	5	15417.00	53697.85
37.	INDIAN COUNCIL OF SOC. SC. RES.	17	483879.00	428601.18
TOTAL		150	23676356.50	24772633.48

VI. RESEARCH FELLOWSHIPS

In addition to 600 NET qualified Fellowship holders, there were 288 fellowship paid from Earmarked Special Fund:

NAME OF THE FUNDING AGENCIES	NO. OF FELLOWSHIP HOLDERS	RECEIPT (Rupees)	PAYMENT (Rupees)
UNIVERSITY GRANTS COMMISSION	37	1054303.40	971652.66
U.G.C. TEACHERS FELLOWSHIP DIRECT AWARDEES	2	0.00	10917.80
DEPARTMENT OF SCIENCE AND TECHNOLOGY	1	9000.00	9000.00
C. S. I. R.	41	1419240.00	1134482.15
INDIAN COUNCIL FOR MEDICAL RES.	2	72348.00	65154.40
INDIAN COUNCIL FOR HISTORICAL RES.	24	284425.00	241421.50
INDIAN COUNCIL OF SOCIAL SC. RES.	24	314983.00	337605.75
INDIAN COUNCIL OF AGRICULTURAL RES.	1	5400.00	12600.00
INDIAN COUNCIL OF PHILOSOPHICAL	2	24300.00	34097.75
DEPARTMENT OF ATOMIC ENERGY	1	16700.00	16200.00
GOVERNMENT OF INDIA, ICCR	59	760511.00	733589.00
N. C. E. R. T.	1	1500.00	700.00
S. J. JINDAL TRUST	1	4500.00	3900.00
K. K. BIRLA FOUNDATION	1	10000.00	0.00
STATE GOVERNMENT FELLOWSHIPS (18 STATES)	91	697145.00	780425.25
TOTAL	288	4674355.40	435176.26

Chapter 13

CAMPUS DEVELOPMENT

The maintenance of horticulture works were carried out by two agencies (a) by CPWD Horticulture Department (on deposit work basis and (b) by University's own staff.

The Deputy Director (Horticulture) CPWD carried out the maintenance of horticulture works in areas around 8 hostels in Utrakhand and Dakshinapuram, Dispensary and Shopping Complex etc. only upto 31st December '94. From January '95 the maintenance work was entrusted to two contractors on contract basis.

Group 'A' areas : B&C Type houses, both sides of roads, Zero Type houses, children park, Students' Activity Centre. The work is continuing.

The contractor has attended to all important horticulture works in these areas, attended to hedge cutting, cleaning, watering in areas around children park and cafeteria and plantation of tree saplings in tree belt.

Group 'B' areas : Utrakhand, Dakshinapuram (8 hostels) North gate, Shopping Complex, Dispensary, primary/nursery school and Aravali Guest House. The work started from 15th February, 1995.

Group 'C' areas : Maintenance of areas attached to Academic Complex, Administrative Block, Animal House, Estate Office, Dean of Students' Welfare Office, Poorvanchal Hostel and residences, Paschimabad Type I and II houses and Vice-Chancellor's residence. The work was done by JNU's own staff during the period under report.

DEVELOPMENT WORKS

The development work was taken up on Sports Grounds and lecture hall complex. The football ground was prepared and grassed and plantation around the field undertaken.

Fifteen buildings of Type I and 3 buildings of Type II quarters under Provident Fund Scheme were completed and occupied during the period. The Sports Stadium was also completed and occupied. The work of Lecture Halls and auditorium complex, Centre for Plant Molecular Biology buildings, Library for EXIM Bank building is in progress.

The construction work of 100-Student hostel during the VIII Plan and Library for the Centre for Historical Studies is also in progress. The construction work of 25 units for faculty in Transit House and 14 Type-I quarters has been entrusted to CPWD and estimates are under preparation. The proposal for major repairs of the old buildings amounting to Rs. 370 lakh has been sent to the UGC and the Ministry for approval and release of funds.

In addition to these construction projects, the Engineering Department of the University has also executed various other minor works. The maintenance work and the minor works at the new campus have been satisfactorily completed.

ELECTRICAL AND WATER SUPPLY

The Electrical Branch of the University is actively associated with the over-all development/maintenance activities of the University. During the period under report the maintenance work of 298 (type I) and 45 (type II) quarters at Paschimabad was included in the maintenance schedule of work. The staff quarters at Paschimabad were provided with all the basic amenities like electricity, water supply, street lighting, etc. Action was also taken to co-ordinate the execution of the construction work of the EXIM Bank Library Building and also the balance work of the Centre for Plant Molecular Biology.

The Electrical and Water supply Wing has been actively working for overall improvement of water supply and development and maintenance work in the university. During the year, additional stress was laid on maintenance works and augmenting the ground water supply to hostels and other maintenance works in the University Campus. The following works have been carried out:

1. A submersible pump has been installed in sports complex.
2. A sump along with booster pump has been installed in the Married Research Scholars Hostel (Extension) for augmenting the water supply.
3. Work of providing sumps along with booster pump in Paschimabad area and Narmada and Sabarmati Hostel is in progress.

Chapter 14

CENTRAL FACILITIES

1. University Library

The Library, which occupies a place of pride in the University, is striving hard to meet the challenges of the teaching and research in the field of Sciences, Social Sciences, Humanities and International Studies. Located in the heart of the Campus, it is accessible from all sides of the Campus. Its ground floor and the 9-Storey Tower has a carpet area of about 1 lakh Square Feet. Library's collection has been organized more or less on the subject divisional plan with a slant towards the traditional pattern.

READERS' SERVICES

Membership

The Library had a total of 5046 enrolled members in the year under report. The break-up is given below:

(a)	Faculty & Project Staff	471
(b)	Graduate & Post Graduate students	1476
(c)	Research Scholars	1852
(d)	Part-time Students	121
(e)	IIT Students	22
(f)	Non-teaching Staff	534
(g)	Special Membership	45
(h)	Teachers from other Institutions/ Academic Staff College Membership	525
	TOTAL	5046

In addition, 760 scholars from other universities, research institutions/organisations availed themselves of the facilities provided by the Library. 525 Teachers, from other universities attending various refresher courses organized by the Academic Staff College of the University, also used the library facilities.

RESOURCE SHARING

(a) Inter-Library Loan : In accordance with the Inter-library Loan arrangement, the Library borrowed 82 and loaned 305 publications to other libraries/institutions, during the year under report. On request, photocopies of articles from books and journals, to other libraries and individuals were also despatched.

(b) Library Cooperation : Teachers and students of the Indian Institute of Technology, New Delhi and of various other Indian and Foreign Universities made use of the Library. JNU teachers and students, too, use the Libraries of some other institutions on reciprocal basis.

Acquisition Programme

(a) Books : The Library acquired 5,870 volumes during the year. Of these, 2543 volumes were received as gifts from eminent persons and organizations. Major donors during the period under report were:

1) Prof. K.P. Mishra, formerly of the School of International Studies, 2) Shri I.J. Bahadur Singh; 3) Prof. Beatrice Kachuck of the School of Social Sciences, and 4) The Japan Foundation.

Books and other material generously presented by various donors to the Vice-Chancellor, the Rector, the Registrar and the Chairpersons of the Centres were also accepted by the Library.

The Library accessioned 1049 volumes of various periodicals in the year under report. The total collection now stands at 4,43,500 volumes.

(b) Journals : The Library subscribed to 1034 journals and also received 200 journal by way of gifts or in exchange. The total subscription bill during the year was of the order of Rs.99.1 lakh.

(c) Exchange of Publications : The Library made a bulk purchase of the quarterly journals of the School of International Studies -- "International Studies" -- and distributed it on an exchange basis to 71 organizations all over the world. The Library received 47 journals and some monographs in exchange of SIS journal.

The Library is on the mailing list of some of the renowned universities and world organizations : the Food and Agriculture Organisation, the World Bank the General Agreement on Tariffs and Trade, the International Monetary Fund, the International Court

of Justice, and the International Civil Aviation Organization. It also acts as a referral centre for European Economic Commission.

JAYENU Bookshop

Established in 1986, the JAYENU Bookshop handled all the book acquisitions of the Library and earned discounts ranging from 15 to 25 per cent in the year under report. The savings made during the years 1985-92 are given below:

Financial Year	Actual Expenditure	Income in the form of extra discount
1985-86	Rs. 13,00,000.00	-
1986-87	Rs. 2,67,564.72	Rs. 5,520.34
1987-88	Rs. 22,42,753.14	Rs. 2,01,039.09
1988-89	Rs. 21,38,374.50	Rs. 2,58,724.02
1989-90	Rs. 31,46,473.34	Rs. 3,98,229.58
1990-91	Rs. 14,58,677.86	Rs. 1,07,340.65
1991-92	Rs. 11,34,083.04	Rs. 1,35,636.33
1992-93	Rs. 13,41,262.09	Rs. 1,48,013.75
1993-94	Rs. 27,64,872.65	Rs. 2,70,906.68
1994-95	Rs. 16,54,719.43	Rs. 2,24,228.32
TOTAL	Rs. 1,74,48,780.77	Rs. 17,49,638.76

These savings do not include the savings made on account of the usual trade discount received in respect of direct purchases from abroad.

TECHNICAL SERVICES

The library adopted AACR II cataloguing rules with effect from October 1989 and started computerizing the cataloguing of books received thereafter. The Humanities and Social Science Divisions use the Colon Classification Scheme; and the Science Division uses the UDC Scheme. The additions made to the Library are listed in Granth Suchi, which is issued on a quarterly basis. The catalogue, besides being in the memory of the Computer, is also brought out in card form.

The Library regularly brings out a monthly documentation list, called Suchika, which indexes articles from about 500 learned journals on subjects relating to Social Science and Area Studies. About 7400 articles were indexed during the period under review.

Press Clippings

About 42,000 press clippings were added in the year under report. The collection, started in 1974, has now crossed the figure of 9.32 lac clippings. It is a unique collection of its kind in the country in the fields of Social Sciences, Area Studies and International Relations. This collection is used by researchers/scholars as well as journalists.

Special Services

The Library provides tape recorders and blank cassettes for the use of visually handicapped students. It also makes typewriters available for the use of the readers in the Library.

Bindery

The following work was done by the Bindery unit of the Library in the year under report:

1.	Cover Binding	352
2.	Hard Board Binding	789
3.	Register binding	110
4.	Pocket Binding	5
5.	Trimming & Stitching	321
TOTAL		1577

Automation and Networking

The Library has an HP Micro 3000/XE Computer system with 4 Megabyte RAM 571 & 81 Megabyte Hard Disks, 4 terminals, a console and printers. Work relating to the creation of a data base of books, articles, etc. was carried out as in the previous years. Suchika and Granth Suchi are brought out in print form from these data bases. The Data bases of Science Collection and European languages have already been completed.

CURRENT POSITION OF DATABASES

1.	Catalogue	: 45,000 records of books
2.	Documentation	: 47,800 records of periodical articles
3.	Serials	: 42,300 serial records
4.	Press Clippings	: 6,000 features and articles in News papers

5. India & World Affairs : 50,000 Articles, books on India's foreign policy
6. DEVINSA database : 16,000 Development related documents records in the abstracts on South Asia.
7. DSIR Project : 12,000 records of current serials in Delhi Libraries.
8. Periodicals Subscription : 3,000 Records

The total number of bibliographical records on the computer memory comes to 2,22,100 an addition of 44,100 entries during the year.

The terminals/PCs have been given to Periodicals Section, Science Division and Processing Section (Social Science). This has facilitated the work of these sections since they are able to enter/process data in their work area itself.

The Science Division has complete data of books on computer. The search facilities will soon be open to Faculty/Students.

INFLIBNET : Under the INFLIBNET Program of the UGC the library has acquired one 486 DX2 System with 16 MB RAM, 540 MB Hard Disk, Tape Drive, Gist Card, SCO Unix Operating System, Four 386 SX Systems with 170 MB Hard Disk and two 386 SX without Hard Disk.

Under the program 4 Data Entry Operator and one Computer Operator were recruited. The data entry of Science collection (including text books and reference books) has been completed. The assigning of subject headings for these books is under progress.

Record created under INFLIBNET Project upto 12-5-95 :

Science database	21,165
Economics database	1,000

	22,165

Work for allotting and subject headings is in progress.

DELNET : The OPAC (Online Public Access Catalogue) of DELNET member libraries is being developed by DELNET. Now the partial data of about 20 libraries in Delhi can be accessed through this. The data prepared by JNU has been passed to DELNET for access by other member libraries.

DSIR Project : The JNU Library staff viz. Shri A.K. Anand and Mrs. Shyamala Murthy, Assistant Librarians, have supervised and prepared the data of current serial subscriptions of Delhi Libraries on behalf of DELNET. About 10,000 serials from 125 libraries.

Conference & Seminars

Shri L.N. Malik, Asstt. Librarian (Senior Scale) and Shri T. Viswanadham, Deputy Librarian attended a three day Workshop CALIBER conducted by INFLIBNET at Hyderabad on Feb. 10-12, 1995.

2. Academic Staff College

The Academic Staff College (ASC) was established at JNU in 1989. The College organises Refresher Courses in Political Science, Sociology, Hindi, History, Economics, Life Sciences, Environmental Sciences, Computer Applications and Biotechnology and Orientation Courses in Social and Natural Sciences.

The main objective of ASC is to refresh the University and College lectures about the disciplinary debates and discourses to enhance their overall intellectual calibre. They are also stimulated to acquire capacity to think and reflect on disciplinary issues and contemporary relevant societal concerns.

The College conducts four Orientation Programmes every year -- two in Social Sciences and two in the Natural Science stream. All these programmes have been greatly appreciated by the participants.

The Orientation Courses are organised for the lecturers who have acquired a minimum of five years of teaching experience, and are ready to embark upon research leading to Ph.D or those who are keen to update their knowledge for better teaching and research.

The objective of Orientation Course is to inculcate among the participants an awareness about the basic principles of higher education and understanding of disciplines like Sociology, Psychology, Philosophy, Management and other related spheres of knowledge.

Participants are provided free board and lodging. TA is paid to participants as per UGC norms. Resource Persons are drawn from JNU as well as from other Institutions and Organisations in Delhi and outside.

The College has an Advisory Committee headed by the JNU Vice-Chancellor.

The College organised 17 Courses (13 Refresher and 4 Orientation Programmes) during 1994-95, and participants were drawn from all over the country for all programmes.

The details of the programmes are given below:-

Orientation Programmes

S.No.	Duration	No. of Participants	Male/ Female	SC/ ST
1.	12th O.C.(Social Sc.) March 21-April 15,1994	56	35/21	1/1
2.	13th O.C.(Natural Sc.) April 18-May 13,1994	31	24/07	nil
3.	14th O.C. (Social Sc.) August 22-Sept.17,94	31	14/17	1/nil
4.	15th O.C.(Natural Sc.) Nov. 11-Dec.16, 1994	21	15/06	nil

Refresher Course

S.No	Duration	No.of Participants	Male/ Female	SC/ ST
1.	2nd R.C. in Hindi April 18-May 13,94	61	31/30	1/1
2.	2nd R.C. in Com. Appl. July 25-August 19, 94	14	13/1	nil/1
3.	7th R.C. in Sociology July 25-August 19,94	36	27/9	nil/2
4.	2nd R.C. in History August 22-Sept.17,94	34	24/10	nil
5.	11th R.C. in Economics Sept. 27-Oct. 17,94	54	32/22	1/3

6.	1st R.C. in Env. Sciences Sept. 27-Oct. 21, 94	29	25/4	nil
7.	1st R.C. in Life Sciences Oct. 24-Nov. 18, 1994	16	10/6	nil
8.	11th R.C. in Pol. Sc. Oct. 24-Nov. 18, 94	44	30/14	4/2
9.	8th R.C. in Sociology Nov. 21-Dec. 16, 94	49	26/23	nil
10.	3rd R.C. in History Jan. 09-Feb. 03, 95	35	21/14	nil
11.	3rd R.C. in Hindi Jan. 09-Feb. 03, 95	42	23/19	nil
12.	12th R.C. in Economics Feb. 06-March 03, 95	41	34/7	3/2
13.	12th R.C. in Pol. Sc. March 06-31, 1995	38	26/12	2/1

Participation in Seminars/Symposia:

Prof. K.L. Sharma, Director [For details, please see under the School of Social Sciences in Appendix IV.

Dr. Balgovind Baboo, Dy. Director: (i) "Development, Displacement and Rehabilitation: The case of the Hirakud Dam in Orissa"; Paper presented at the Seminar on Development Displacement and Rehabilitation at the Centre for Social Studies, Surat, 11-13 May, 1994; (ii) Workshop on Evaluation of Academic Programmes, CPDHE, Delhi University, Nov. 29-30, 1994; (iii) International Workshop on "Displacement and Resettlement : Towards a National Policy", Delhi School of Economics, 21-23 January, 95; (iv) National Workshop on the Draft Rehabilitation Policy, Indian Social Institute, N. Delhi, 17-19 February, 1995; (v) "Education and Social Change", Paper presented at the National Symposium on Education for Social Change organised by Agramee at Panthanivas, Puri, Orissa, 14-15 April 1995.

Project sanctioned for Rs. 46,690 by the ICSSR to work on the "Economic, History of Sambalpur District 1849-1947".

3. University Science Instrumentation Centre

The University Science Instrumentation Centre (USIC) at JNU caters to the various Schools/Centres/Departments for repair, design and development and fabrication of scientific research equipment/instruments. The Open House held in April 1994 lead to several Departments asking for work from USIC. Some of these departments never used the services of USIC previously. During the year under report the Centre was able to offer services to the Health Centre as well as the Administration. It completed about 270 jobs which included repair, designing/fabrication. Some of the major jobs completed were:-

(a) The Electronic package for gas sensor was developed. This was required by the Indian Association for Cultivation of Science, Calcutta; (b) DC Micro-volt meter; (c) Bee-Counter; (d) AC Current Sources of variable frequency; (e) Electronic Teaching Kit (Digital and analog circuits; (f) Digestion bombs; (g) Major cooling system; (h) Fumigation hoods; and (i) construction of partitions in SES.

In addition, USIC helped researchers in getting their equipments repaired by outside agencies by providing the welding services when required.

During the period under report, a short-term course in basic electronics was organised by USIC for JNU Technical Staff. The Centre was assisted by the Language Laboratory personnel.

Symposia/Seminars/Training attended:

1. Ms.Chittaranjana Kaul, Micro-processor based instrumentation at IISC, Bangalore, from 6th June to 19th June 1994.
2. Mr.B.S. Pandey, Computer Hardware maintenance by CEDT, Aurangabad, from 6th Sept. to 10th Sept. 1994.
3. Mr. V.P.Arya, National Symposium on Instrumentation from 8th Nov. to 11th Nov. 1994, presented paper, "Voltage Discriminator and recording of Neurophysiological signal using micro-computers", in Poster Session.
4. Mr.V.P.Arya, Refresher Course on Instrumentation organised by Academic Staff College and WRIC, University of Bombay from 1st March to 25th March 1995.

Keeping in view the requirements of the University, USIC is planning to start Computer Maintenance at a low level. Towards this end, a small room has been built from its own resources.

4. Language Laboratory Complex

The Government of Japan has gifted a sophisticated video recording-cum-production facility to the Language Lab. Complex, consisting of high band superior performance video studio equipment, out-door shooting equipment, a multi-lingual word processor with printer, audio/video recording unit, vision mixer, editing table, U-Matic to U-Matic, U-Matic to VHS and VHS to VHS simultaneous dubbing unit, and high speed audio duplication and recording systems.

The set-up was further strengthened by adding three wireless lapel microphones for better sound recording, installation of back-ground wall curtain for recording special effects using of chroma keying equipment. With this infrastructure and additional trained professionals the unit can take up production of audio/video teaching material and provide facilities for media research.

A 12-foot diameter dish antenna with motorised feed horn and transmission receiver has been installed. The testing of the equipment is under completion and the facility shall be shortly commissioned. This is a fulfillment of long cherished dream of the students and teachers of the School of Languages. Now onwards they will have direct access to native speaking through satellites such as Arabsat, Chinasat, Gorizont Raduga and exposure of cultural aspects of their respective target language areas. This system will enable the unit to receive, record and watch programmes transmitted in Russian, Arabic, Chinese, French, Spanish and some other foreign languages.

During the period under review all the Language Labs and Audio Visual rooms were extensively used for teaching. On an average, a Language Laboratory/Audio Visual/Video Projection Room is utilised for about 30 hours per week. During the year the facilities were used for about 2,000 hours. The Audio Visual Room facilities were also extended to all other Schools of the University other than the School of Languages.

The LLC has already launched a programme 'entitled "Milestones" to record and preserve the views and discourse of Professors Emeritus of the University for the benefit of future generation of students and teachers of JNU and the country as a whole. In this series, Prof.K.J. Mahale and Prof.Mohammad Hasan have already been recorded. A video film on noise pollution titled "How Silent are Our Silent Zones" was produced in collaboration with the School of Environmental Sciences of the University and shown on Doordarshan. During the year, 20 video and 30 audio recordings/dubbings were done including recording of the Silver Jubilee function of the University and the inauguration ceremony of wall-murals by Mr.M.F. Hussain.

The LLC provided consultancy to the Goa University in setting up of a Language Lab system and to Border Security Force in training of their media personnel. The Language Lab. Complex continued to be the Indian centre for the Japanese Language Proficiency Test conducted by Japan Foundation all over the world. This

year about 250 students were tested for their proficiency in listening, vocabulary, reading and grammar of Japanese language.

Two courses -- one in Basic Electronics and another in Advance Electronics -- were also conducted for the benefit of technical staff members of the university in collaboration with USIC. The certificates and prizes to the toppers were awarded by the Vice Chancellor.

The LLC is planning to set up a Centre for Educational Mass Media Research in the University. The existing professional grade Audio and Video facilities and vast academic expertise available in the University shall be exploited to produce good quality video recording educational software. The Centre shall also be used for research in Mass Media. Eventually courses on mass media and mass media research can be conducted to fill in the gap between the demand and supply of media personnel. The training programme will also provide manpower to the University for its video material production facilities.

5. Adult Continuing Education & Extension Unit

Members of Adult Continuing Education and Extension Unit at JNU undertook a variety of activities, viz, Extension, Research, Teaching, Publication and Documentation. The Unit also functioned as a nodal agency to monitor the programme of university departments of adult education in Delhi.

Extension Programmes

The Unit organised the post-literacy programme under the UGC scheme of Jan Shikshan Nilayam during 1994-95. One of the specific objective of the scheme was to sustain the interest of neoliterates by providing them suitable post-literacy materials. Since the JNU Unit had already implemented the basic literacy programme at Kusumpur Pahadi in the past, a two-day Continuing Education Programme on AIDS, Drug Abuse and Family Life Education was organised for 30 selected participants.

An orientation programme was also organized to acquaint them with a variety of post-literacy materials. An exhibition of 500 titles of post-literacy materials was organized to enable the participants to indicate their reading interests and preferences.

A review of the implementation and impact of the programme indicated that the programme not only sustained the reading interests of the neoliterates but also encouraged the reading interests of their family members specially the school-going children. The programme was coordinated by Shri O.P. Swamy under the overall guidance of Dr. S.Y. Shah.

Continuing Education Programmes

The Unit organised two-day Continuing Education Programmes on (1) AIDS & Drugs - its causes and consequences and (2) Family Life Education & Reproductive Health Education (RHE) for the selected thirty slum women of Kusumpur Jhuggi-Jhonpri colonies (near Indian Airliness Colony, Vasant Vihar) on September 29 & 30, 1994. A number of preparatory meetings and discussions were held with the selected women of this slum. Relevant motivational talks were delivered and posters pasted in the slum areas. Resource persons from the Family Planning Association of India, Marie Stopes and the All-India Institute of Medical Sciences delivered talks, showed Video films and discussed various aspects of the problem with these slum women.

The country-wide panic about plague epidemic was highlighted to create an awareness and to enable the slum women to take precautionary measures.

A package programme consisting of lectures, audio-visual shows, and discussions made the whole educational programme effective. The programme was coordinated by Dr. M.C. Paul.

Smt. Krishnan worked towards establishing institutional linkages to help in sociological & agriculture related extension programmes. She has undertaken extensive identification of medicinal plants for taking up education and awareness programmes for general public.

Under Mrs. Krishnan's "Chirag Tale Andhera Hatao" Programme, intense literacy coaching for women Safai Karmacharis of JNU, has been taken up.

Research Projects

Dr. S.Y. Shah was one of the two Indians invited to participate in an International research Project on "outstanding Professionals" coordinated by the Slovenia Adult Education Centre of University of LJUELJANA. As a part of the project Dr. Shah prepared a chapter on Indian Adult Education.

Dr. Shah is currently working on a research project an "Indo-Canadian Co-operation in Adult Education" which is partly funded by the Shastri Indo-Canadian Institute, New Delhi.

Documentation Services

During the year under report, the Unit procured 41 priced publication on Adult Education and catalogued them, thereby expanding the documentation services. At present, there are 399 priced publications and about 1500 free publications available at the Unit.

The Unit has also acquired nearly 500 titles of post-literacy materials, six video cassettes on Audit Education in connection with Continuing Education Programme.

Lectures delivered by the faculty

Dr. S.Y. Shah: lecture on "Historical and Survey Methods in Adult Education" at the short term course on "Research on Methodology" organized by the Indian Adult Education Association, New Delhi, December 6, 1994; an introductory talk on "Canadian involvement in Indian Adult Education" at Indian Adult Education Association on 9 March 1995.

Visit by Overseas Specialists

During the year, the following dignitaries visited the Unit and held discussions with the faculty on various aspects of adult education:-

- i) Ms. Mamta Misra, Executive Director, World Literacy of Canada, Toronto, Nov. 16, 1994;
- ii) Dr. Heather Ramsay, Dept. of Adult Education, Ontario Institute for Studies in Education, Toronto, December 10, 1994;
- iii) Professor John K. Friesen, Former Director, Department of Continuing Education, University of British Columbia, Vancouver, March 6, 1995.

Participation in Seminar/Conference

Smt. S. Krishnan: All-India Conference of Rachanatmak Samaj, delivered a talk on Women's Participation in Development Process at Renigunta, Andhra Pradesh on 25th Sept. 1994; Conference organised by National Action Forum for Social Justice, Dehra Dun, February, 1995.

Dr. M.C. Paul: Seminar on Round Table Conference on "Role of NGOs in Total Literacy Campaigns (TLC)" organised by Indian Adult Education Association, New Delhi, on August 24, 1994; National Seminar on "The Family in India", organized by PWPA, India, on November 19-20, 1994; 3rd Asian Conference of Sexology, New Delhi, from 27 Nov. to 1st December, 1994; National Seminar on "The Role of State in Higher Education", organised by ZHCES/SSS, 9th March, 1995; National Seminar on "Culture and Nation Building in India", from 25-27 March, 1995, organised by DSA/CSSS, JNU.

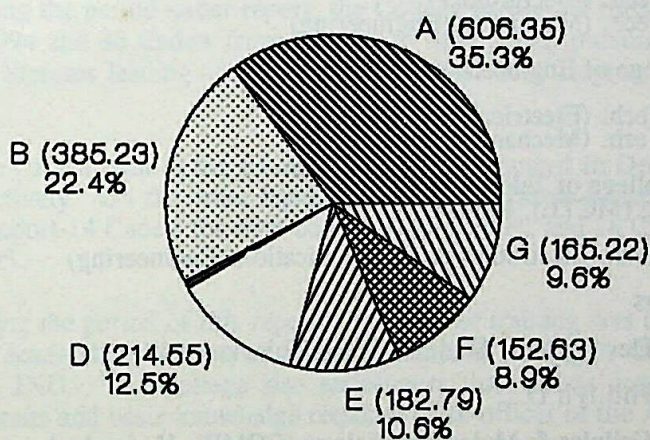
Seminar/Training Programmes Organised:

In collaboration with Foundation for Amity & National Solidarity, Smt. Krishnan organised a 5-day All India Youth Camp at Mysore in Dec. 1994, in which more than 250 students from 23 universities participated.

6. University Employment Information and Guidance Bureau

The University Employment, Information and Guidance Bureau which is a vacancy exchange for foreign languages and medical personnel is fairly well equipped with copies of the prospectus, other informative material relating to educational facilities available at various universities and educational institutions.

UNIVERSITY FINANCE (1994-95) Maintenance (Budget) Expenditure Rs.1912.48 lakhs



[A=Acad.Prog.; B=Comm. Ser.; C=Schshp./
Felsbp.; D=Other Depts; E=Library;
F=Admn.; G=Misc.]

RECOGNIZED INSTITUTIONS

Under Statute 39(1)(b) of the JNU Act, the University has the power to recognize or associate different institutions with it.

The following institutions have been recognized/ associated with the University.

Defence Institutions

1. National Defence Academy (NDA), Pune
 - (a) B.A./B.Sc.
 - (b) B.Tech.
2. Army Cadet College (ACC), Dehradun
 - (a) B.A./B.Sc. Degrees
3. College of Military Engineering (CME), Pune
 - (a) B.Tech. (Mechanical Engineering)
 - (b) B.Tech. (Electrical Engineering)
 - (c) B.Tech. (Civil Engineering)
4. Military College of Electronics and Mechanical Engineering (MCME), Secunderabad
 - (a) B.Tech. (Electronics)
 - (b) B.Tech. (Mechanical Engineering)
5. Naval College of Engineering (NCE), Lonavla
 - (a) B.Tech. (Electrical Engineering)
 - (b) B.Tech. (Mechanical Engineering)
6. Military College of Telecommunication Engineering (MCTE), Mhow
 - (a) B.Tech. (Electronics & Communications Engineering)

Other Institutions

7. Centre for Development Studies (CDS), Thiruvananthapuram
 - (a) M.Phil./Ph.D.
8. Centre for Cellular & Molecular Biology (CCMB), Hyderabad
 - (a) Ph.D.
9. National Institute of Immunology (NII), New Delhi
 - (a) Ph.D.
10. Bhabha Atomic Research Centre (BARC), Bombay
 - (a) Ph.D.
11. Sir C. V. Raman Research Institute, Bangalore
 - (a) Ph.D.

Chapter 15

RECOGNISED INSTITUTIONS

1. National Defence Academy

The National Defence Academy (NDA) Khadakwasla (Pune) is an inter-services institution imparting general education leading to BA/B.Sc. degrees and training in out-door and service subjects to the cadets.

2. The Army Cadet College, Dehradun

The Army Cadet College is a Wing of the Indian Military Academy, Dehra Dun, imparting general education leading to the award of BA/B.Sc degree and training in outdoor and service subjects to the Cadets who are the selected soldiers from regular Army.

During the period under report, the College had on its rolls, 79 Cadets from July to December, 1994 and 88 Cadets from January to May, 1995, pursuing studies in Humanities and Science Streams leading to the award of BA and B.Sc Degree of the Jawaharlal Nehru University.

Nine Cadets each of the 64 and 65 courses graduated in December, 1994, and May, 1995, respectively. On the other hand, a total of 32 Cadets joined the College during the year under report-14 Cadets for 69th course in July, 1994, and 18 Cadets for 70th course in January, 1995.

During the period of this report, the thrust of training was to impart to the Cadets a broad-based academic education or requisite standard leading to the award of BA or B.Sc degree from JNU. The College also endeavours that Cadets acquire character qualities, personality traits and basic knowledge required of an officer of the Army.

The co-curricular activities continued to form an integral part of training. Great emphasis is, therefore, laid to ensure that Cadets develop a deep sense of involvement, hand-on skills and experience in the successful organisation of such activities.

Indoor Clubs : At the ACC Wing, relentless stress is laid on all-round development of Cadets. The Arts Club encourages its artists to express their creativity through the medium of various fine arts. The Workshop Club aims at encouraging Cadets to give expression to their creative skills. The Camera Club is an active and popular club. Its members are active throughout the year. The Science and Technology Club enables the

study and preparation of projects which serve the dual purpose of learning and entertainment. The Drama and Music Club not only taps the hidden histrionic qualities of the Cadets but also provides a creative release for them to express themselves through the medium of drama, musical evenings and entertainment programmes.

Outdoor Clubs : The outdoor clubs viz. Tennis, Squash, Golf, Yoga, Karate, Driving and Maintenance, Riding, Cycling, Adventure sports and Environment studies were also organised.

English Debate : Inter-platoon English Debates were organised on 8th August, 1994, and 2nd February, 1995.

Hindi Debate : Inter-platoon Hindi Debates were held on 5th September, 1994 and 23rd February, 1995.

Inter-Platoon Quiz Competitions were held on 10th October, 1994, and 6th April, 1995.

Educational visits and Adventure training hikes were organised in order to impart informal education to Cadets. Hikes/educational visits were taken to Kulu Manali-Rohtang Pass, Sangla Valley (Shimla), Jaipur, Yeol Camp (Dharamsala), Instrument Research and Development Establishment, Dehra Dun and IDPL Rishikesh, Haridwar.

The members of the Music and Drama Club staged a Hindi Play "Lalchi Buddhhe" on 17th October, 1994. Besides, Wing Socials were organised where the Cadets find an opportunity to interact with Officers and their wives..

The College brought out the annual number of the Journal in December, 1994, wherein the Cadets got an opportunity to contribute through short stories, poems, articles, cartoons, etc.

During the period under report, the College has widened the scope of the project work undertaken by the Cadets. In order to help the Cadets develop their skills in reading, writing and speaking, it now encompasses lectures, presentation and book-reviews spread over six semesters. The response from the Cadets has been very enthusiastic.

Games and Sports : Inter-platoon competitions were held in Hockey, Volleyball, Football, Aquatics, Boxing, Athletics, Basketball and Cross-country. Besides, ACC Cadets formed part of IMA teams in various sports tournaments viz. in Basketball, in Hexagonal Meet in IMA, Dehradun in September, 1994; in Football and Basketball in IMA-OTA Challenge Cup in Madras in January, 1995, and in Cricket, Football, Basketball and Volleyball in Bakshi Cup (Sports meet between IMA and NDA) at Khadakvasla in March, 1995.

Dr. G.D. Goel, HOD Maths participated in the 82nd session of the Indian Science Congress Association from 1-10 January, 1995 at Calcutta.

Lt. Gen. Inder Varma, AVSM, Commandant, Indian Military Academy, Dehra Dun, presided over the Graduation Ceremony of 64th course on 3rd December, 1994 and of 65th course on 27th May, 1995. Names of the Medal winners for both courses are as follows :

Medal	Names of the Winner in 64th Course	Names of the Winner in 65 Course
COAS Gold Medal for Standing First in the Overall Order of Merit.	CQMS RS Gurung	CCC VK Chowhri
COAS Silver Medal for standing Second in the Overall Order of Merit.	PCC Radhakrishnan	Cdt Vageesan R
COAS Bronze Medal for standing Third in the Overall Order of Merit.	CCC MS Virk	CSM Durga Shankar
Commandant's Silver Medal for standing First in the Science Stream.	Cdt Shaji CC	Cdt Jadhav RR
Commandant's Silver Medal for Standing First in the Humanities Stream.	PCC Radhakrishnan	Cdt Mahesh Kumar
Commandant's Banner for Overall Championship.	Chushul	Chittor

The year witnessed a general all-round improvement in academic standards and in outdoor activities of this College. The Cadets excelled not only in the class room but also did equally well in co-curricular activities and sports. Special efforts were made to improve the achievement level of weak Cadets by organising remedial coaching and through personal guidance and counselling.

3. The Military College of Electronics and Mechanical Engineering, Secunderabad

The Military College of Electronics and Mechanical Engineering (MCEME) which is a premier institution of technical education of the Army, came into being in 1946. It comprises four faculties, i.e., Faculty of Electrical and Mechanical Engineering, Faculty of Electronics Engineering, Faculty of Aeronautical Engineering and Faculty of Industrial Engineering and Tactics. In April 1991 a Division for Simulator Development has been added as this College has been assigned the task of developing training simulators for the Army. The College campus is spread over an area of over 400 acres.

All training and technical education imparted by the College is need based. The College, primarily, offers technical and management education in the engineering disciplines relevant to weapon systems and equipment to all ranks of the Corps of EME, including civilians, from the technician to the post-graduate level, with special reference to repairs, maintenance and inspection. It also provides pre-course training to EME personnel deputed for training abroad and conducts special engineering training for Non EME personnel and foreign nationals who are assigned to the College by the Army Headquarters.

In keeping with above role, the College offers training programmes/courses in the following broad subjects :-

- (a) Electrical and Mechanical Engineering.
- (b) Electronics
- (c) Industrial Engineering and Tactics
- (d) Aeronautical Engineering
- (e) Computer Technology

A highly qualified teaching faculty comprising a balanced mix of combatants and civilian professorial staff is the backbone of this institution. There are about 100 engineering laboratories in the College, which are updated from time to time. The College library houses over 51,781 volumes on varied engineering and management subjects.

Progressive methods of instruction such as syndicate exercises, tutorials, seminars, workshops, project work, war gaming, computerised instructions and such like means are used with modern training aids, dynamic and tubular models, display panels, training films, closed circuit TV, simulators and so on. MCEME also has an impressive galaxy of guest faculty drawn from various experts in the fields of engineering and management.

While striving for academic excellence, due attention is also given to the aspects of character building, physical fitness and personality development. The trainees being military officers and soldiers, are imparted essential military training alongwith technical education. This College has facilities for all types of sports and extra curricular activities.

Tournaments are held frequently and regularly to encourage healthy competition and sportsmanship.

The Degree Engineering courses serial DE-58 and DE-59 which graduated on 29 Oct 94 and 06 May 95 comprised one officer from the Mechanised Infantry, two officers from Nepal Army and 63 EME officers.

Out of 66 officers who graduated in Course Ser DE-58 and DE-59, 46 secured first class and 20 second class. 32 have qualified in Mechanical Engineering and 34 in Electronics Engineering.

Lt Gen (Dr) VJ Sundaram, PVSM, AVSM, VSM (Retd), Director, DRDL, Hyderabad, presided over the convocation ceremony held on 28 Oct. 94, for Course Ser DE-58 and Professor Yoginder K Alagh, JNU Vice Chancellor, presided over the convocation ceremony held on 04 May, 95, for Course Ser DE-59 and gave away B Tech parchments of the JNU, New Delhi to the graduate officers.

To see how far students are able to assimilate the training imparted to them, they are assigned projects of practical importance to the Army. Twenty-six projects assigned to Course Ser DE-58 and DE-59 were successfully completed and presented/displayed on the occasion of the graduation ceremony.

Awards for Academic Excellence and project work are presented at the convocation ceremony of each course. Twenty two students were given such awards during the period.

For the continuous development of teaching faculty, they are encouraged to participate in several seminars/workshops. During this period 16 faculty members participated in various seminars.

As a part of faculty development programme a series of 13 Quality Improvement Programme lectures were organised by the teaching staff.

The College conducted 17 Guest Lectures/Capsule courses for other Defence Training Institutions.

AWARDS AND AWARD WINNERS

Course SER DE-58

1. DGEME's Gold Medal for standing first in order of merit on the course.
RNA-1658 Lt Shree Raj Kunwar.
2. Comdt's Silver Medal for standing first in order of merit in mechanical stream.
IC-44603W Capt Vivek Kashyap.

3. Commandant's Silver Medal for standing first in order of merit in Electronic stream: RNA-1658 Lt Shree Raj Kunwar.
4. Comdt's Silver Medal for best projects:-
 - (a) Mechanical Stream (i) IC-41634H Capt SK Sharma; (ii) IC-45650A Capt SS Kapoor.
 - (b) Electronics Stream (i) IC-44184K Capt H Shankar; (ii) IC-44140M Capt Siddiqui SA; (iii) IC-42765H Capt JJ Mathews.
5. Brig V Sreeramulu Rolling shield for best performance in VI semester in Electronics stream: IC-44184K Capt H. Shankar.
6. Brig V Thyagarajan Rolling Shield for best performance in VI semester in Mechanical stream; (i) IC-45619M Capt SS Katariya; (ii) IC-44603W Capt Vivek Kashyap.
7. Capt NK Agarwal Memorial Trophy for best all rounder: IC-44184 Capt H Shankar

Course SER DE-59

1. DGEME's Gold Medal for standing first in order of merit on the course: IC-47046 Capt Shailendra Malik.
2. Commandant's Silver medal for standing first in order of merit in Mechanical stream: IC-43688L Capt Kalyan Singh
3. Comdt's Silver Medal for standing first in order of merit in Electronics stream: IC-47046N Capt Shailendra Malik
4. Commandant's Silver Medal for Best Projects:-
 - (a) Mechanical Stream (i) IC- 45841L Capt Patrick Naresh; (ii) IC-47059L Capt Ajay Bhatia.
 - (b) Electronics Stream (i) IC-47046N Capt Shailendra Malik; (ii) IC-44707X Capt Harinder Singh; (iii) IC-44749K Capt RK Wason.
5. Brig V Sreeramulu Rolling Shields for best performance in VI semester in Electronics stream: IC-47046N Capt Shailendra Malik.
6. Brig V Thyagarajan Rolling Trophy performance in VI semester in Mechanical stream: IC-43688L Capt Kalyan Singh.

7. Capt NK Agarwal Memorial Trophy for best all rounder: IC-47014L Capt Tapan Kumar Das.

SEMINARS/WORKSHOPS ATTENDED

1. Col NPR Babu; Statutory Regulation for Plant Engineering; IIPE AP
2. Brig K Hari Kumar; Indigenisation of Air Force requirement IAF-CII; IAF-CII Delhi
3. SWO SB Singh; ECO Technology Retrospects and Prospects; IE (I), Hyderabad.
4. Col KR Sama; Responsibility of Manager; Mgt Assn, Hyderabad.
5. Col Jagdish Singh; Information Technology for Growth and Prosperity; CSI-94.
6. Maj PN Singhal; Satcom-94; INS Valsura Jamnagar.
7. Maj AS Yadav; Infantry Weapon Effects Simulator System (IWESS); BHEL, B'lore
8. Lt Col Mahesh Chand; VLSI Design; VLSI; Society of India.
9. Col HS Sarin; Discussion of procedure to be adopted for developing a common standard for use by Ministry of Defence with respective Software development; LRDE Bangalore.
10. Col VK Janakiraman; Microwave and Mullimeter Waves Recent Trends; DEAL, Dehradun.
11. A/P DR DP Roy, VSM; Microwave and Mullimeter Waves Recent Trends; DEAL, Dehradun.
12. Lt Col Yogesh Jain; Role & Responsibility of Business in the Society; IE Hyd'Bad.
13. SWO SB Singh; Role & Responsibility of Business in the Society; IE Hyd'Bad.
14. Brig K Hari Kumar; Total Quality Management and ISO-9000; NITIE, Bombay.
15. Col KR Sama; Quality of Life Technology and Environment; Inst of Engr, Hyd'bad.
16. Lt Col VP Munjal; National Security; IAS, Hyderabad.

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4. The Naval College of Engineering, INS Shivaji, Lonavla

The Naval College of Engineering conducts Basic Engineering Course, which is a 3-year B.Tech degree course for Ex.NDA cadets (with B.Sc entry qualification) consisting of 2.5 years common basic training after which Electrical and Mechanical streams are bifurcated. It also conducts a 4-year B.Tech degree course in Electrical and Mechanical engineering for trainees inducted under 10+2 Tech. Cadet entry scheme wherein the Electrical and Mechanical streams are bifurcated after 3.5 years of common basic training.

There are four faculties in the College. These are: a) Mechanical Engineering Faculty; b) Marine Engineering faculty; c) Electrical Engineering faculty; and d) Basic Science Faculty.

The faculty consists of 42 staff officers of which 20 are Naval officers and 22 are civilian Scientific officers/Professors.

57 Officers including 3 foreign and 1 CW Officers were admitted for 10210 NEC, 75th BEC and 76th BEC during the period. The total strength of students for various courses was 293. 51 students received Mechanical certificates and 32 Electrical certificates.

Research Journals published

- (a) "Perspective Planning for Engineering Education of Indian Naval Technical Officers" - Paper presented in "National Seminar of Engg. Education" at B.H.U. Varanasi from 11th-13th Jan 95 by Dr. VP Singh, Sc.`F', Prof RVS Subrahmanyam, Sc.`E' and Shri MD Bagewadi, Sc. `C'.
- (b) "Absorption studies of iron on tungson by Probe hole field emission microscopy" AD Adsool, Rajiv Pande, R.B. Sharma, M.A. More and D.S. Joag -Paper was presented in 41st international Field Emission Symposium Rouen, France, July 11-15, 1994 and accepted for publication in "Applied Surface Science" - North Holland.

RESEARCH PROJECTS

- (a) Ongoing research project

S.No.	Name of Project	Sponsored by	Faculty Members
1.	Field emission microscopy of 3rd transition metals adlayered on tungston	DAE	i) Shri RB Sharma Scientist `C' ii) Dr DS Joag(Pune University)

(b) Project submitted for sanction :

Mathematical Model of an Infra-red signature suppression system for Marine Gas turbine Exhausts

DTSR
DRDO

- i) Dr.V.P. Singh, Sc.F
- ii) Shri S.P. Mahulikar Sc.`B'
- iii) Shri A.T. Raja, Sc.`B'
- iv) Shri Sanjay Kumar Sc.`B'.

(c) Student projects:

Following student projects were successfully completed by 70th, 71st BEC and 10207 NEC:

- i) Transmission delay line
- ii) DC Chopper
- iii) Voltage stabiliser
- iv) Sonar principle demonstrator
- v) Microprocessor based process control
- vi) Frequency multiplier
- vii) Dataswitch
- viii) Voice recorder
- ix) Microprocessor based video graphic display
- x) Digital PH meter
- xi) Microprocessor based information
- xii) Power system fault study simulator
- xiii) Radar simulator

Participation in national and international seminars :

1. Dr Virendra Kumar, Scientist 'D'; International Symposium on Snow and its Manifestation, SASE, Manali, (26.9.1994 to 28.9.1994)
2. Shri L.N. Shrivastava, Scientist 'E'; International workshop on reliability issues of Power Electronics, IIT, Bombay, (19.11.1994 to 20.11.1994)
3. Shri D.V.B. Swamy, Scientist 'E'; Short/adhoc course on State of Art of IC Engines as Prime Movers, Institute of Engineers (India), Ranchi, (25.11.1994 to 27-11-1994)
4. Shri D Saravanan, Scientist 'B'; Workshop of Satellite Communication and Navigation, INS Valsura, (7.11.1994 to 8.11.1994)
5. Shri R.V.S. Subrahmanyam, Scientist 'E'; National Seminar on Engg. Education in 21st Century, BHU, Varanasi, (13.1.1995 to 15.1.1995)

6. Shri L.S. Bhargava, Scientist 'E'; National workshop on Industrial Ergonomics and Safety, REC, Warangal, (17.2.1995 to 18.2.1995)
7. Shri R.V.S. Subrahmanyam, Scientist 'E'; ISTE course on Emerging trends in Control System, ISTE Summer School, A.P. (1.5.1995 to 13.5.1995)

Special lectures organised

1. Shri R.S. Bhargava, Bajaj Auto Ltd., Pune, Total Quality Maintenance, 6th October, 1994.
2. Shri M.B. Deshmukh, Sc.`F', NCML, Bombay, Corrosion, 7th October, 1994.
3. Dr. A.G. Kulkarni, Sc.`E', NCML, Bombay, Cathodic Protection of Ships, 7th October, 1994.
4. Prof S.M. Saroh, MIT Pune, Programmable Logic Controller, 8th October, 1994.
5. Dr. P.J. Joglekar, Bombay, Industrial A/D and D/A Conversion, 15th October, 1994.
6. Dr. H. Singh, Director, ERDL, Pune, Activities at ERDL, 21st October, 1994.
7. Cmde Ratan Singh, ARDE, Pune, Activities & Projects at ARDE, 24th October, 1994.
8. Cmde Kshetrapal, DNAM, NHQ, The Relevance of Aviation Arm in the Navy, 14th February, 1994.
9. Cap J.S. Jaswal, FEO. East, Fleet Maintenance, 24th February, 1994.
10. Mr R. Juvekar, Para-sailing and Paragliding, 25th March 1995.

PRIZES/AWARDS WON BY STUDENTS

Passing Out Parade 60.236 & 10206 NEC : May 94

69th BEC (60.236)

a)	Ist in overall order of merit	-	SLt A Marwaha
b)	IInd in overall order of merit	-	" Subodh Kumar
c)	Best Sportsman	-	" RS Dhaliwal
d)	Positive Living	-	" R Gaur
e)	Best All Rounder	-	" RS Dhaliwal

NEC(10206)

a)	Sword of Honour	-	AgSLt K.K. Mahapatra
b)	Ist in overall order of merit	-	" GK Kathapalia
c)	IInd in overall order of merit	-	" Rajan Dhiman
d)	Positive living	-	" Deepak Gupta
e)	Best Sportsman	-	" R. Vaidyanathan

70th BEC (60.237) - Passing Out Parade - Dec 94

a)	Ist in overall order of merit	-	SLt A. Sriram
b)	IInd in overall order of merit	-	" Sanjay Singh
c)	Positive living	-	" S. Bhattacharjee
d)	Best Sportsman	-	" S. Bhattacharjee
e)	Best All Rounder	-	" S. Bhattacharjee

5. College of Military Engineering

During the period under review, the following number of students graduated with B Tech degree of JNU :-

(i) Civil Engineering : 45; (ii) Electrical Engineering: 20; (iii) Mechanical Engineering: 10; (iv) Electronics and Mechanical Engineering (Part I) from Corps of EME: 82, and; (v) Electronics and Tele-communication Engineering (Part I) from Corps of Signals: 70.

Advanced coursed equivalent to Post-Graduate courses in Civil, Electrical and Mechanical Engineering: (i) Advanced Civil Engineering: 13; (ii) Advanced Electrical and Mechanical Engineering: 16.

Quality Improvement Programmes: Faculty members are regularly sponsored to attend Seminars, Workshops and Symposia and encouraged to present papers during these sessions, in order to keep them updated with state-of-the-art technology and modern advancement in their respective fields. This regular interaction ensures the cross pollination of ideas and views about latest developments in various fields of technology. Faculty members attended 11 National/International Conferences and presented papers.

Research facility is available for faculty staff within the College. Instructors are also being encouraged to undertake research in various fields in collaboration with Technical Institutions and Research and Development Establishments (Engineers). In addition, student officers are encouraged to carry out research work for their B. Tech. and M. Tech. Programmes, in which they are guided by the Instructors. The final year students are formed into syndicates to take innovative projects like Robot, Solar Ice Plant and Remote

Detonating Devices and Designing of Water Tanks, Multi-storey Buildings. Three projects were undertaken by teachers during the period.

The faculty members are encouraged to publish technical papers. Some of these have been published in National and International Journals of renowned technical bodies. A total of 10 such papers were published during the period.

Many faculty members are undergoing courses for award of ME/M.Phil./Ph.D. by University of Pune and other Universities. They are guided by professors of the College who have been recognised as Guides for Post Graduate Programmes by various Universities.

The College organised various cadres like Methods of Instructions Cadre, Leadership Development Cadre and Rapid Reading Cadre to develop the teaching potential of the instructors. Familiarization Cadres are also being conducted for newly inducted staff. Senior Officers of all the three services of the rank of Brigadier/equivalents and above were given a capsule for a fortnight for familiarization on the Nuclear, Biological and Chemical Warfare aspects in the modern warfare.

The dignitaries who visited the College included five senior Army Officers and four civilians.

A long - felt necessity was met when the College became member of ERNET. This will enable the College to exchange information electronically with other members of the E-Mail Network all over the world.

The College is taking up computerisation of its sufficiently large library having about 1,25,000 volumes, in addition to subscriptions of about 60 National and International Journals.

The College is having 38 laboratories and 10 workshops for conduct of various technical courses. The existing equipments are not in consonance with the technological developments which are taking place in various fields of engineering. In order to impart training covering the latest aspects the following amount has been projected for modernisation of laboratories to Director General of Military Training

a)	Modernisation of Training Aids	Rs.	53.60 lacs
b)	Modernisation of Laboratories:		
i)	Under Diectorate General of Military Training Modernisation Programme	Rs.	24.20 lacs
ii)	Under AICTE Modernisation Programme	Rs.	378.12 lacs
	Total	Rs.	455.92 lacs

6. Military College Of Telecommunication Engineering, MHOW

I. PUBLICATIONS

(a) Books/Precis

(i) Integrated Communication Part II; (ii) ASCON; (iii) Telephony and Exchange; (iv) DC & VF Telegraphy; (v) Handout for Regimental Commanders Course; (vi) Radio Set UA; (vii) Electronic TP WEBEL T 1200; (viii) Radio Set 4 KW; (ix) Radio Relay RRD; (x) Digital Signal Processing; (xi) Computer Technology; (xii) Propagation; (xiii) Set Theory and Boolean Algebra; (xiv) VF Tone Attachment; (xv) Unit Level SWBD.

(b) Research Articles/Papers

Maj. B.J. Shah, Information Security Management in Defence For CSI Seminar "INFOSEC 94", Bangalore 26-27 Aug 94.

Brig. B.K. Kataria, VSM & Lt. Col. M.K. Khera, Data Communication and Integration of Heterogeneous Information System in the Army, for seminar-cum-exhibition on Automation in the Army at Air Force Auditorium, New Delhi 01.03 March 1995.

Lt. Col. A.K. Dhawan, Military Application of Millimeter waves, for symposium on Microwaves and Millimeter wave at DEAL, D'dun on 08.09 April 1995.

SEMINAR ORGANISED

INFOSEC 95. a National level Seminar was organised to consider issue related with cryptology. The seminar was attended by Senior Signal Officers of Army HQ and MCTE. Papers were presented on various related issues. The seminar was also attended by senior scientists from LRDE, DRDO, BEL and ITI, April 27-28, 1995.

RESEARCH PROJECTS

The name of the faculty is followed by the title of the project and date of completion.

(a) Completed

Maj. A.K. Singh & Maj. N.R.K., Phone Patch Facility, June 23-24, 1994.

Maj. T.V.S. Raghava & Maj. S.S. Rana, Patching Auto Exchange with Adm Mux, June 23-24, 1994.

Maj. S.L. Phirke & Capt. G.D. Joshi (CIPH), Design PC-Beacon Interface, June 23-24, 1994.

Maj. B.G. Gilganchi & Asstt. Prof. R.P. Sharma, Corner Reflector, June 23-24, 1994.

Maj. R.P. Dahiya & Capt. V.S.M. Krishnan, Nickel Cadmium bty charger, June 23-24, 1994.

Maj. S.L. Phirke & 2nd Lt. A. Shahi, DOS utility to display data from dBASE and LOTUS 123 files, January 14, 1995.

Asstt. Prof. R.P. Sharma & Maj. B.G. Gilganchi, Design and fabrication of an asynchronous comm unit for students Assimilation testing package, January 14, 1995.

Maj. B.J. Shah & Maj. V. Gera, Software for testing students assimilation, January 14, 1995.

Lt. Col. S. Ahmed & Maj. B.B. Singh, Design and implementation of copy protection schemes for DOS based floppies, January 14, 1995.

Maj. S.L. Phirke, Maj. A.M. Uniyal & Maj. B.J. Shah, Design of a modem for woking on RS ANPRC, February 8-9, 1995.

Maj. Manjit Kumar & Maj. A. Balan, Design of a vibration sensitive Alarm to prevent unauth user trying to lift VCR/any other costly eqpt, February 8-9, 1995.

Maj. B.B. Singh /Maj I Viswesharan, Design of a phone line monitor, MCTE, 8-9 February 1995.

Maj. A Swaminathan/Maj SL Phirke, Design and fabricate a Freq counter for 1Khz to 20 Khz range, MCTE, 8-9 February 1995.

Asst Prof RP Sharma/Maj A Ajmani, Design and fabrication of a remp sensor and power cut-off sys for power amp, MCTE, 8-9 February 1995.

Maj. A.K. Lal /Maj SL Phirke, Design and fabricate on applique unit to provide reliable Hot Line using speech channel of ADM MUX (in NON AREN environment), MCTE, 8-9 February 1995.

Maj. P.S. Panesar/Capt VSM Krishnan, design and fabricate a lead acid battery Charger with auto cut-off facility, MCTE, 8-9 February 1995.

Maj. V. Gera/Maj. I. Visveswaran, fabricating cordless security System for strong room/RTC, MCTE, 8-9 February, 1995.

Maj. S.P. Joshi/Maj. A.K. Lal, to design and fabricate special intercom based commercial mains wiring, MCTE, 25-26 April 95.

Maj. A. Swaminathan/Lt A Shahi, to fabricate microphone compressor, MCTE, 25-26 April 1995.

Mr. R.P. Sharma/Maj. P.V. Vadvadgi, to design and fabricate tele conversion limorit, MCTE, 25-26 April 1995.

Maj. T.V.S. Raghava/Maj. A. Ajmani, design and infared based alarm system for system for monitoring the entry of any interud to sensitive installation, MCTE, 25-26 April 1995.

Maj. Manjit Kumar/Mr. M.L. Keshariya, design and fabricate a low and high voltage Cut off for 2 KVA load, MCTE, 25-26 April 1995.

Maj. B.B. Singh/Maj. I. Visveswaran, Nickel Cadmium Bty charger, MCTE, 25-26 April 1995.

Maj. V. Gera/Maj. Manjit Kumar, Common peripheral IC Tester, MCTE, 25-26 April 1995.

Maj. S.L. Phirke/Maj. S. Panesar, Soft ware for PC Comn, MCTE, 25-26 April 1995.

Maj. S.P. Joshi/Maj. A. Ajmani, RR Link monitor for comncen, MCTE, 25-26 April 1995.

Lt. Col. S.D. Saraswat/Lt. Col. S. Bandopadhyay (AEMCA), SINAD Meter, MCTE, 25-26 April 1995.

Maj. B.B. Singh/Mr. R.P. Sharma, Hand Held Data Entry Device, MCTE, 25-26 April 1995.

Lt. Col. S. Ahamad, Implementation of forward error correction, MCTE, 25-26 April 1995.

(b) On-going

Mrs. K. Athar/Maj. B.G. Gilganchi, to design and fabricate FM receiver from 88 to 109 Mhz range, MCTE, 25-26 April 1995.

Maj. A.K. Lal/Capt. V. Krishnan, BER measurement device, MCTE, 25-26 April 1995.

Maj. B.G. Gilganchi/Maj. P.V. Vadvadgi HF Antenna for mobile commn, MCTE, 25-26 April 1995.

Maj. B.J. Shah/Maj. A.M. Uniyal, Serial Card for PCs, MCTE, 25-26 April 1995.

Maj. A. Swaminathan, Data Link Layer for AMPS, MCTE, 25-26 April 1995.

Maj. A. Swaminathan/Maj. A. Balan, Anti virus System, MCTE, 25-26 April 1995.

Maj. A. Swaminathan/Maj. V. Gera and Maj. R. Malhotra, Speaker identification, MCTE, 20-22 Jun 95.

Lt. Col. S. Ahmad/Maj. A.K. Lal and Maj. B.J. Shah, EW Simulator, MCTE, 20-22 June 1995.

THRUST AREAS

Undermentioned laboratories are being upgraded/modernised. The work will be completed as soon as the funds are made available :-

- (a) Optical Comn Laboratory
- (b) Satellite Laboratory.
- (c) Microwave Laboratory.
- (d) System Development Laboratory.
- (e) Antenna System Laboratory.
- (f) Microprocessor Laboratory.

PARTICIPATION IN CONFERENCES/SEMINARS/SYMPOSIA/WORKSHOPS

In India

Col. V. Ramachandran, International Conference on Systems and Education, 22-25 Jun 94, Bangalore.

Brig. B.K. Kataria, VSM International Conference on Wireless Communications, 18-19 Aug 94, Bangalore.

Maj. B.J. Shah, CSI Seminar INFOSEC-94 National Conference on Information Security, 28-30 Jul 94, Bangalore.

Col. V. Ramachandran, Communication India'94 Exhibition & Conference, 25-28 Oct 94, New Delhi.

Maj. Vinod Batra, Brief on XXIX Annual Convention & Exhibition Computer Society of India, 21-24 Nov 94, Calcutta.

Lt. Col. A.K. Dhawan, Satellite Based Seminar, 03 Dec 94, DAVV, Indore.

Lt. Gen. J.S. Duggal, Seminar-cum-Exhibition Technology Trends (INFOTEK International'95) Commandant, MCTE, 19-21 Jan 95, New Delhi.

Brig. Virender Kumar, Seminar on Modern Trends in Technology, 23-24 Feb 95, CAT, Indore.

Maj. Ravi Malhotra, First National Conference on Communication (NCC 95) 13-14 March 95, I.T.I., Kanpur.

Lt. Gen. J.S. Duggal, Commandant MCTE and Lt Col AK Dhawan, 26th Mid Term Symposium on Microwaves and Millimeter Waves Recent Trends, 08-09 Apr 95, Dehradun.

Maj. I. Visveswaran Capsule Course New Equipment SMART, 09-14 Jan 95, BEL, Kotdwara.

7. Centre for Development Studies, Thiruvananthapuram

Set up in 1971, the Centre is an autonomous research-cum-teaching institution financed by the Government of Kerala and the Government of India. The main objective of the Centre is to promote research and teaching in the disciplines relevant to development. The Centre was recognized by the JNU in the year 1974 for award of M.Phil degree and subsequently its proposal for award of Ph.D. degree was also approved by the AC/EC of the University in 1977. The Centre has been engaged in studies on economic and social problems; organizing and running new post-graduate courses; training government officials engaged in planning, project evaluation and related fields as in working in close collaboration with other universities and institutions in the country. The University nominates two faculty members to represent on the Committee of Direction of the Centre. Members of the faculty who supervise research are recognized by the Academic Council of the University under the Statutes/Ordinances in force for such recognition.

With the gradual opening up of the Indian economy during the last four years, structural adjustment and liberalisation has emerged as a distinct area of research. There were two major initiatives embarked upon by the Centre during 1994-95 breaking new grounds in research on environment, sustainable development and trade liberalisation. These were taken up in collaboration with other organisations.

The research project 'Sustainable Development: An Actor Oriented approach' (by P.S. George and K.N.Nair) is sponsored by the Swiss National Science Foundation, and is taken up jointly with the Geographical Institute, Zurich. The work for this project will continue.

A comparative study of the experience of other countries in the context of economic reforms -, 'Emerging trends and Patterns in Invisible Trade: A comparative analysis of India, Brazil, and South Korea' was completed by K.J. Joseph and Mohanan Pillai. 'Stabilisation and Structural Adjustment in Mexico' by Mohanan Pillai was another initiative in the same direction.

In the past, Centre's research in the area of technology, innovation and diffusion had primarily focussed on agriculture and livestock. Over the last few years a concerted effort has been made to widen the area of interest, and in the last year some of these efforts have come to fruition. A major study was completed by John Kurien on 'Technology Diffusion in Marine Fisheries', which explored the interaction between technology and institutions in the absorption and diffusion of technology. Sunil Mani's 'Financing Technology-Based Small Firms and Venture Capital Funds' was an exploration in another emerging area of utmost importance. 'Mapping the Sources of Innovation in India' by Mohanan Pillai was an attempt at pursuing the macro dimensions of technology generation. N. Shanta's 'Growth of firms in Indian Manufacturing Industry' is at one end of this spectrum.

On request from the Rajiv Gandhi National Drinking Water Mission, the Centre took up a validation exercise for the 1991-93 census on the subject, as a part of an All India study on the "Validation of Not-Covered (NC) Rural Habitations". This work was taken up in addition to the ongoing research at the Centre on pricing of urban drinking water supply in Kerala.

The M.Phil course curriculum of the UNFPA project for the Postgraduate Diploma Programme in Population and Development will come to an end on 31st December 1995. There will be an evaluation of the project performance by external experts appointed by the UNFPA towards the end of the year 1995. The project has played an important role in the Centre by stimulating research in the area of population and development and by creating an opportunity to interact with professionals from a number of developing countries. So far 116 persons from 40 developing countries covering Africa, Asia, Central America and Latin America, have attended the programme. Their project reports have produced a wealth of material on cross-country experience in population policies and programmes, and the linkages between the social sectors and the demographic behaviour. In view of the external evaluation and the possibility that this project could continue to the third cycle, an internal review of the training curriculum has been initiated. The internal review report would provide an opportunity for the faculty as well as the students to interact with scholars in the country at large.

The Honorary faculty members of the Centre have traditionally played a very constructive role in the growth and development of this institution. Several members like Dr. K.K. Subramanian, Dr. I.S. Gulati, Dr. P.G.K. Panikar and Dr. T.N. Krishnan actively contributed to the activities of the Centre during the reporting year.

8. Centre for Cellular and Molecular Biology (CCMB) Hyderabad

The Centre for Cellular and Molecular Biology (CCMB) Hyderabad is one of the constituent national laboratories of the CSIR. It is a premier multi-disciplinary research centre in the country founded by the Central Government. It was set up in 1977 to fulfil a long-felt need in the country for providing necessary trends in molecular and cellular biology which are recognised as there were areas in modern biology.

The main objectives of the Centre are: to carry out exploratory work in areas of biology, to train people in the advanced areas of biology, to provide centralised facilities in the country for new and modern techniques in inter-disciplinary areas of biology; and to interact with other institutions doing basic or applied work in areas of similar nature of that of the CCMB. The JNU accorded recognition to the CCMB for the purposes of Ph.D. Degrees in 1988. Since then, the Centre has been interacting with the University in major areas of research activity. Two faculty members from Science Schools of the University are nominated to represent the University on the Academic Advisory Committee of the Centre.

9. National Institute of Immunology (NII),

New Delhi

The National Institute of Immunology was established to foster advanced research in the fast-growing area of immunology. The institute was dedicated to the nation in October 1986 in its present campus. It is an autonomous body supported by the Department of Biotechnology, Ministry of Science and Technology. NII, besides conducting research in the frontier areas of immunology and molecular biology also imparts training in these areas to scientific and technical personnel within the country and the Asian region.

Research activities (1994-95)

A project investigating the activation requirements of T cells, their interactions and functions was continued. Dr. Vineeta Bal's group has demonstrated that while being able to respond to allo-ligands presented by professional antigen presenting cells (APC), freshly isolated T cells were anergised to the same ligands presented by activated T-cells. It was seen that costimulatory signalling through CD28 - B7 interaction had no role in the induction of this tolerance. Supplementing IL-2 during the priming with T cell APCs could overcome this anergy. Dr. Satyajit Rath has been examining the process of generating peptide-MHC ligands for T cells. These studies contribute towards our understanding of the nature of immune response and help broadly outline a strategy for modulating it.

The problem of delivering lethal concentration of drugs to eliminate neoplasms and intracellular pathogens without affecting bystander cells has prompted Dr Sandip K Basu's group to explore scavenger receptor system for drug targeting. These receptors are unique to cells of the macrophage lineage. Success has been achieved in clearing experimental leishmaniasis and tuberculosis by this approach. The scavenger receptor is also being exploited to deliver antisense oligonucleotides to inhibit viral replication and to enhance macrophage cytotoxic efficiency by targeting biological response modifiers into them.

Dr. JK Batra's project on immunotoxins is concerned with the development of new recombinant molecules that can be targeted to disease-sites and tracking their fates *in vivo*. Recombinant restrictocin-TGF α fusion protein and α -sarcin coupled to anti-transferrin monoclonal antibodies were targeted to EGF receptor and transferrin receptor-bearing cells respectively. Both ribotoxins were able to inhibit protein synthesis in the targeted cells significantly. Construction of single-chain immunotoxins and investigation of their intracellular processing pathways is being undertaken.

Crystallography, sequence homology and 3D computer modelling has been employed by Dr. Dinakar Salunke's group for mapping receptor-binding sites of hormones such as hCG and GnRH. Substance P, a neuropeptide is also being subjected to such molecular dissection.

Dr. Seyed E. Hasnain's group demonstrated the presence of a polyhedrin promoter binding protein in insect cells which regulates expression of heterologous genes cloned in the Baculovirus. This protein binds to the coding strand of the polyhedrin promoter and is a critical player in transcription from the promoter.

A probe capable of revealing Yq material, was used to screen samples of patients suffering from Turner's syndrome. Dr. Sher Ali and his colleagues confirm that results are indicative of the value of this probe as a prognostic marker for individuals at risk of developing gonadoblastoma. Sequence polymorphism at the level of Yq material will be determined eventually.

The origin and evolutionary radiation of the Indian wild mice was studied by Dr. Rajesh Anand and his French collaborators. Newer laboratory strains from the Indian wild mouse might prove a valuable resource to immunologists.

The institute had initiated, a systematic search for active components of extracts from potent plants documented in traditional medical literature. Purification, chromatographic separation, and characterization of some plant products for their biological properties have been attempted. *Withania somnifera*, *Tinospora cordifolia*, *Embelia officinalis*, *Piper longum*, *Terminalia chebula* extracts have been analysed for immunomodulatory and anti-inflammatory properties. *Azadirachta indica* or neem seed extracts were also similarly analysed. Indications of immunomodulatory properties of some fractions (NII-9.1) manifested by elevated levels of certain cytokines are evident in the research project of Dr SN Upadhyay.

Dr Om Singh's group is currently attempting to develop new adjuvants and carriers for increasing the immunogenicity of the β hCG vaccine. In a project aimed at the development of a better vaccine delivery system, vaccine incorporation efficiency of 60% was achieved with biodegradable microcarriers having α hCG-TT as antigen.

Other gamete contraceptive immunogens under investigation include the zona pellucida and sperm proteins. Epitope mapping of porcine zona pellucida glycoprotein (ZP3) is being carried out by Dr Satish K. Gupta's group. They have also shown that the ZP3 expressed in the baculovirus expression system was immunoreactive and that antibodies generated by it recognized porcine ZP3 and a 19-mer residue based on the human zona sequence, in ELISAs.

A 24 kDa murine testicular antigen (which has a human acrosomal equivalent) isolated by Dr. Chandrima Shaha earlier, was seen to have similarities to glutathione S transferase (GST). Antibodies to this antigen can induce infertility. The intriguing finding that this antigen has relation to GST which is an ubiquitous protein in the body, is being pursued to determine its role in testicular function.

While non-surgical embryo transfer in cattle and buffaloes, cryopreservation, sexing and micromanipulation techniques have been standardized, the current activities of Dr. SM

Totey's group are directed towards delineating factors enhancing cleavage and development rates of embryos in culture. It was observed that the presence of Insulin-like Growth Factor - I (IGF-I) had trophic effect on buffalo embryos. The temporal and spatial expression of IGF-I receptor ligand and the receptor gene will be investigated using reverse transcriptase polymerase chain reaction (RT-PCR) in preimplantation buffalo embryos.

Hepatitis is a focal area of research at NII. Dr.Niren Deka and his colleagues have adapted hepatitis E virus (HEV) to cell culture conditions in carcinoma cell lines and the infection was confirmed by RT-PCR and by Northern blotting. Cell culture-derived HEV could transmit the disease to monkeys as evidenced by the excretion of the virus in stools and elevation of liver enzymes of the infected animals. This group has also obtained evidence of a new virus causing hepatitis, hepatitis F virus (HFV). HFV was isolated from infected samples and accultured to Hep-2 human larynx carcinoma cell line. The ~20 kb DNA was found to have repetitive sequences by restriction analysis. A probe was developed from the cell culture derived viral genome which could detect the virus in both sporadic non A non B patients as well as experimentally infected animals.

The presence of Hepatitis B surface antigen negative but DNA positive blood samples were noticed earlier by Dr.P.Khandekar and his colleagues. These variant forms of HBV were analysed in detail. Sequencing of the entire preS and S regions showed several point mutations and consequent amino acid substitutions. A shift in serotype was also seen at several places. RNA secondary structure prediction revealed the presence of a hairpin loop which could lead to down-regulation of translation, and perhaps to low or no expression of HBsAg. The HBV DNA probe thus remains a valuable tool to detect even variant forms of hepatitis B that escape serological detection.

Research efforts to detect tuberculosis early during infection and to upgrade the potency of existing anti-tubercular vaccines were strengthened. A DNA probe in conjunction with a PCR test had been developed by Dr. Khandekar's group to detect both pulmonary and extra pulmonary tuberculosis. In order to simplify it for field use, the assay has been converted into a non-isotopic modality with a comparable degree of sensitivity. The repetitive sequence on which the probe is based, was analysed in detail. A degree of homology to the transketolase gene of *M. leprae* was observed. Meanwhile, Dr.Rama Mukherjee's group has attempted to clone the SodA gene and a gene encoding a 38 kD protein of *M. tuberculosis*, into *Mycobacterium w*. Incidentally, *M. w* has demonstrated protective efficacy against TB in animals that were unprimed by BCG immunization. By providing more protective epitopes, it is intended to enhance potency of the *M. w* vaccine against TB.

The leprosy vaccine comprising of heat-inactivated *M. w* is going through field testing in Kanpur Dehat, an area marked by high endemicity. The therapeutic as well as prophylactic benefit is being assessed in these trials. A comparative trial at Chingelput under the aegis of the Indian Council for Medical Research is currently evaluating all three candidate leprosy vaccines namely, the WHO, ICRC and *M. w* vaccines. Meanwhile, hospital-based therapeutic trials on multibacillary leprosy patients provide evidence of the vaccine's benefit in terms of faster bacterial clearance, upgradation of immunological status

and accelerated recovery. Some patients refractive to multidrug therapy have also benefited by the vaccine.

Serological tests for HIV-1/2 developed earlier was validated on clinical samples. The gp 41, 36 and 120 combination has a sensitivity of 97.7% and specificity of 99.1% with 218 samples analysed.

Publications

Seventy one original research papers were published in reputed pre-reviewed journals besides 31 contributions to symposia proceedings and chapters in books. The institute has also filed a few patent applications in India and in other countries.

University interactions

Ten students were selected for registration to the Ph.D. programme. Nine students received their doctorates from the Jawaharlal Nehru University with which the institute has academic affiliation. Eighteen students belonging to various university departments spent upto three months familiarising themselves in the various laboratories of the institute.

Collaborative programmes with institutions of higher learning overseas are being continued. These linkages have been forged mainly under the Indo-French scientific exchange programme, the British Council Higher Education Links scheme, the US-AID Contraceptive Development and Research in Immunology programme and direct institutional exchange programmes such as with Institut Pasteur, Paris and the Population Council, New York.

Industry linkages

The institute has established linkage mechanisms with the industry to upscale and commercialize technologies that have potential benefits for the masses or have commercial value. A few diagnostic kits and therapeutic products have thus been transferred to the industry. These include tests for Streptococcus A, amoebic liver abscess, pregnancy and a leprosy vaccine. A peptide formulation with potential to arrest colon adenocarcinoma is also being developed by the industry under NII's supervision. The association with the pharmaceutical industry is being currently reviewed with a view to optimise technology transfer efficiency.

Designations

The institute remains a designated Centre of the WHO for Research and Training in Immunology. It is a part of the FAO's Asian Network for Biotechnology Applied to Animal Reproduction and Health, the UNESCO's International Network for Molecular and Cell Biology and forms a node of the Hybridoma Data Bank.

10. Bhabha Atomic Research Centre (BARC), Bombay

One of the few topmost research institutions in the country, the Bhabha Atomic Research Centre (BARC) was recognised by JNU in the year 1975 for the purpose of award of Ph.D degrees of the University. The science faculty of the University have been keeping collaboration with the faculty of BARC on areas of mutual interest.

11. Raman Research Institute, Bangalore

The Raman Research Institute was founded by Professor C.V.Raman in 1948. After his death in 1970, the Institute was reorganised as a National Institute for research in basic sciences and it has been receiving grants from the Department of Science and Technology of the Government of India since 1972. The JNU recognised the Institute for award of Ph.D. degrees in 1992.

During the year under report, one of the research highlights of the Institute was the successful completion of the low frequency (150 MHz) radio map of the Southern sky at low resolution by its Mauritius Radio Telescope. Another highlight of the Institute's academic activities was the highly successful and scientifically rewarding SERC School on liquid crystals at the Institute in May, 1994 attended by 60 participants drawn from all over the country. The collaborative scientific work during the year under report, participation by the members of the Institute in conferences in India and abroad, their visits to various institutions indicate, as in the past, the extent of national and international activity of the Institute. The content of colloquia given by the members of the Institute and those from the neighbouring institutions as also by visitors clearly reflect the breadth of the areas covered at the Institute.

As a quantitative measure of the research output of the Institute during the year, 45 papers were published in refereed journals, 8 in conference proceedings and about 41 are in press/submitted for publication.

A total of 33 visitors from 10 countries visited the Institute. A five-member Chinese delegation led by Dr.Lou Xhaomei from the National Council for Science Foundation visited the Institute in September, 1994.

Major changes took place in the computing facilities at the Institute during the year. Twelve new workstations (8 DEC Alpha and 4 SUN Sparc systems) were added to the computer Section after de-commissioning the VAX 11/780 system. A 19 kbaud lease line between the Institute and the ERNET node at Indian Institute of Science has provided internet connectivity to all the users.

APPENDIX-I

PUBLICATIONS

A. BOOKS

SCHOOL OF ENVIRONMENTAL SCIENCES

1. P.S. Ramakrishnan, A.N. Purohit, K.G. Saxena and K.S. Rao., 1994, *Himalayan Environment and Sustainable Development*. pp. 84. Indian National Science Academy, Bahadur Shah Zafar Marg, New Delhi, pp. 84.
2. P.S. Ramakrishnan, K.G. Saxena, M.J. Swift and P.D. Seward, 1994, *Tropical Soil Biology and Fertility Research: South Asian Context*, G.B. Pant Institute of Himalayan Environment and Development, Almora, pp.147.
3. R.G. Wetzel, A. Vander Valk, R.E. Turner, W.J. Mitsch and B. Gopal (eds), 1994, *Recent Studies on Ecology and Management of Wetlands*, Int. Sci. Publi., New Delhi.
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5. B.C. Patten et.al. (B. Gopal - SES) 1994, *Wetlands and Shallow Continental Water Bodies*, Vol.2, SPB Acad. Publi. The Hague.

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13. K. Warikoo, (CSCSEA&SWPS), *Central Asia : Emerging New Order* (Ed.), Har Anand, New Delhi, 357 pp.
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15. Zafar Imam & N.V. Romanovsky, (CSEES), *Russia Under High Stalinism : The Last Phase of Stalin's Rule, 1945, 1953*, Har Anand Publications, New Delhi, 1994.
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17. Ajay Patnaik, (CSEES), 1995, *Commonwealth of Independent States' Problems and Prospects*, Konark Publishers Pvt. Ltd., New Delhi.
18. Dawa Norbu, (CSCSEA&SWPS), 1995, *Revival of Buddhism in Modern India*, New Delhi, Ashish Publishing, 1995.
19. V.S. Mani, (CSDILE), 1993, *Basic Principles of Modern International Law*, Lancers Books, New Delhi, 1993, pp. 440.
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21. Pasha, A.K. (CWAAS), *Kuwait : Strategies of Survival*, Har Anand Publications, New Delhi, 1995.

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23. Rajendra Dingle (CGS) , 1995, *INDIA 2000*, Edited by Pramod Talgeri & (Associate Editor) S.P.Ganguly, New Age Int. Published Ltd. Wiley Eastern Ltd. New Delhi.
24. Pramod Talgeri (CGS) , *India 2000 - Global Civilization and Cultural Roots*, (Ed. with S.P. Ganguly) (Wiley Eastern), New Delhi 1995, pp.176.

25. S.M. Abbas Sharib (CIL) , 1995, *Tanqeedi Mabahis*, Educational Publishing House Delhi Pages 224.
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28. Harish Narang (CLE) , 1995, *Mightier Than Machate*, Wiley Eastern, New Delhi.
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30. Kapil Kapoor (CLE) (Mrs.Ranga Kapoor), 1995 *Canonical Texts of English Literary Criticism with Selections from Classical Poeticians*. Academic Foundation, Delhi.
31. Varyam Singh (CRS) 1994, *Tani Hui Pratyancha: Anthology of 20th Century Russian Poetry*, (Trans.) Sahitya Academic, New Delhi.
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33. Vasant Gadre (CSS) , 1994, *El Kama Sutra*, Rupa & Co., Delhi.
34. Vasant Gadre, (CSS) 1995, *Artesania*, Rupa & Co., Delhi.
35. S.P. Ganguly, (CSS) 1994, *India-Poesia Contemporanea*, Ediciones Libertarias, Madrid (with Alpredo Villaverde).
36. S.P.Ganguly, (CSS) 1995, *Tierras Lejanas Voces Cercanas: Estudios sobre el acercamiento Indo-Ibero-Americano*, Wiley Eastern Ltd., New Delhi (with Anil Dhingra).
37. S.P. Ganguly, (CSS) 1994, *A Manual of Professional Spanish*, CLACS, New Delhi (with Anil Dhingra).
38. S.P. Ganguly, (CSS) 1995, *India 2000: Global Civilization and Cultural Roots*, Wiley Eastern Ltd., New Delhi (with Pramod Talgeri).
39. Anil Dhingra with S.P. Ganguly, (CSS) 1994, *A Manual of Professional Spanish*, Centre for Latin American & Caribbean Studies of India, New Delhi.
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B. CHAPTERS CONTRIBUTED TO BOOKS

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Zakir Husain Centre for Educational Studies

245. Binod Khadria, "Consistency and Contradiction in the Development Underdevelopment Relationship : A Perspective view on causes and Consequences of Policy for Brain Drain", *Occasional Paper on Perspectives in Indian Development*, No., XLIII, Centre for Contemporary Studies, Nehru Memorial Museum and Library, Teen Murti House, New Delhi, 1994.

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251. Sushila Singhal and Mohanty, N., "Psychological differentiation and School, Performance of Tribal and Non-Tribal children in their cultural context", in *International Perspectives on Culture and Schooling*, (Ed.), by Ellwyn. Thomas, University of London, 1994, pp. 392-406.
252. Sushila Singhal, "Social Justice in the Context of Education", *The Social Engineer*, 4,1, 68-79, 1995.

RESEARCH PROJECTS

COMPLETED PROJECTS

SCHOOL OF ENVIRONMENTAL SCIENCES

1. B.Padmanabhamurty, "Urban-Rural Energy and Moisture Balance Studies" Dept. of Science & Technology, G.O.I.
2. A.K. Bhattacharyya, Studies on Fractionation and Characterisation of Some Organic Contaminants in River Yamuna around Delhi. CSIR (1990-94).
3. J. Behari, Biological Tissue Characterisation using ultrasound (CSIR), 1.10.1991 - 28.2.1995.
4. # A.K. Bhattacharyya, Classification and characterisation of Domestic Solid Wastes generated in JNU-Munirka Area.
5. # R. Subramanian, Soil Fodder Animal Relationship of Selenium Toxicity in Karnal Area.

SCHOOL OF LIFE SCIENCES

6. G.S. Singhl, Effect of environmental stresses particularly of UV-B Radiation on primary photochemical process in Green Plants, CSIR, Government (1991-95).
14. Prasad, R., Genetic analysis of amino acids transport systems of *Candida albicans*, CSIR, 1990-1994.
15. Ajit Varma, Molecular architecture of phycobiliprotein from cyanobacte *Brium Spirulina platensis*, UGC, 1991-1994.
16. Goyle, Shobha., Mutagenic risk in epileptics before and after anticonvulsant therapy, ICMR, 1990-94.
17. B.C. Tripathy, Chlorophyll biosynthesis and the greening process. DST, Govt. of India (1989-94).

Unsponsored Projects

18. # R.K. Saxena, Role of MHC I antigen expression on tumor cells in determining their susceptibility to cytotoxic lymphocytes.
19. # R.N.K. Bamezai, Study of modulation of carcinogenesis in a animal model
20. # R.N.K. Bamezai, Factors responsible for induction of high sister chromatid exchanges in chromosomes.
21. # R.N.K. Bamezai, M3 endoreduplication in chromosomes and mitotic recombination.
22. # R.N.K. Bamezai, Genetic susceptibility to leprosy.

SCHOOL OF INTERNATIONAL STUDIES

23. K.S. Jawatkar, (CIPOD), "Prediction and International Relations Theory", Useful to the Academics and Students of International Relations.
24. K.V. Kesavan, (CEAS), "Japan's Policies in Indonesia in the Post-War Years".
25. Baladas Ghoshal, (CSCSEASWPA) "Perception as an Input in Policy-Making : ASEAN Countries", Perception of India, Ministry of External Affairs, Govt. of India, 1995.
26. Ganganath Jha, (CSCSEASWPA) "The Politics of Ethnic Minority Groups in Southeast Asia".
27. K. Warikoo, (CSCSEASWPA) "Kashmir and Ladakh : Linguistic Predicament" (In collaboration with Prof. P.N. Pushp).
28. Zafar Imam, (CSEES), "Disintegration of the Soviet Union and the Rise of New Republics in Asia, 1985-1991", Indian Council of Social Science Research, New Delhi (Completed in January-February, 1995).
29. H.S. Prabhakar, (CEAS) Postwar Japan: Consensus Politics in a Stable Society.
30. Alokesh Barua (CSDIL&E) with Prof. Das, "Regional Inequalities, Economic Growth and Liberalization", ITD discussion papers.
31. Alokesh Barua, (CSDIL&E) "The Federal Economy of India : Regional Inequality, growth and Liberalization", a book.

Unsponsored Projects

32. Sandwip K. Das and Alokesh Barua, (CSDIL&E) "The Federal Economy of India : Regional Inequality, Economic Growth and Liberalization".
33. # Vijay Gupta (CWAAS), "Post Cold War Africa, Monograph".
34. V.S. Mani (CSDIL&E) with S. Bhatt & V. Balakishta Reddy, "Air Law and Policy in India, Department of Space/ISRO, Govt. of India 1992-93, now published.
- 34.a. A.K.Pasha, (CWAAS), "Writing a monograph on Indo-Saudi Relations since 1950's".
- 34.b. P.C. Jain, (CWAASF)" Population and Society in West Asia".

SCHOOL OF LANGUAGES

Centre for Japanese & North-East Asian Languages

35. Prem Motwani, "A Complete Guide to Loanwords in Japanese", Matsu Shita Foundation, Japan.

Centre of Spansih Studies

36. S.P. Ganguly, Bibliography of publications on Spanish Themes in India and on Indian Themes in Spain and Latin America, ICCR (India).

Centre for African & Asian Languages

37. # Abdul Haq, "Islamic Culture in Independent India".
38. # A. Basheer Ahmad, "A Contrastive Study of Syntax in Arabic and English".

Centre of French Studies

39. Rita Sil, Teaching of methodology of Research & Techniques. Introduction and texts compiled. (Completed)
40. Rita Sil, French history and its interpretations (M A).(Completed)
41. Rita Sil, Reader in French Revolution (Completed).

Unsponsored Projects

42. Rita Sil, Teaching of French Civilization., M.Phil, Introduction and text compiled.

43. Rita Sil, Teaching aids useful for classroom teaching.

Centre of Indian Languages

44. S.M. Abbas Sharib, 'Critical Study of Urdu Marsia (Ready for Publication).

45. S.P. Sudhesh, 'Tulnatmak Sahitya, Siddhant Aur Adhyayan' A University level book on Comparative Literature in Hindi, useful for research scholars.

Centre of Russian Studies

46. K.P.S. Unny, 'Practical Russian: Grammatical Stylistics-II.

47. Varyam Singh, 1st Part of '*Two Centuries of Russian Poetry*'.

SCHOOL OF SOCIAL SCIENCES

Centre for Political Studies

48. Sudha Pai, "From Developmentalism to Neo-Liberal Adjustment: The Experience of Brazil and India." Project Report submitted to the ICSSR, New Delhi, July 1, 1994.

49. # Kiran Saxena, "R.S.S.", BJP and Working Class - A Study of Bhartiya Mazdoor Sangh.

Centre for the Study of Regional Development

50. Chadha, G.K., Participatory Development in the Third World : A Case Study of Four Cases in India, UNCRD, Nagoya, Japan (1993-94).

51. Chopra, Kusum, Economic Development and Scientific Technical Manpower in India, Council of Scientific and Industrial Research, New Delhi.

52. Premi, M.K. with S. Raju, Gender Issues in Workforce Participation in the 1991 Census of India. U.N. Development Fund for Women through Indian Association for the Study of Population.

53. Premi, M.K., Natural and Administrative Division and District Level Estimates of Birth and Death Rates for Uttar Pradesh 1986-1990, US Agency for International Development through IASP.

54. Premi, M.K., Emigration Dynamics : The Indian Context, International Organization for Migration.

55. Thorat, S.K., Emerging Agrarian Structure in India 1953-54 to 1981-82, DSA, JNU.

56. # Satish Kumar, Desakota : Invalidation of its Spatial Formation in Kerala, (1995).

Centre for the Study of Social Systems

57. R.K. Jain, "Aspects of Indian Culture & Entrepreneurship in the Durban Area", Sponsored by Human Science Research Council.

58. K.L. Sharma, "Social Formation of Skekhawati" Sponsored by the ICSSR.

59. Anand Kumar, "Pathology of Elections : A Study of Delhi State Elections, 1994", sponsored by CSSS, JNU, New Delhi.

60. Anand Kumar, "Women's Mobility in Uttar Pradesh", sponsored by National Commission on Women, Govt. of India.

Zakir Husain Centre for Educational Studies

61. Binod Khadria, "Return of Human Capital - The Second Generation Effects of Brain Drain", 1995; Times Fellowships Council, New Delhi (Award of Times Fellowship 1992)

62. # Binod Khadria, "Economic Strategies for Banishing Child Labour - Universalization of Primary Education, Specific Vs General Egalitarianism and Innovation in Financial Instrument for Mobilization of Participation".

63. Binod Khadria, Writing a book on Economics of Education for Developing Countries.

64. Binod Khadria, Writing a Manuscript on International Migration and Brain Drain.

65. # Sushila Singhal, "Equity and Excellence in Higher Education Socio-Psychological Analysis".

RESEARCH PROJECTS (ON-GOING)

SCHOOL OF ENVIRONMENTAL SCIENCES

1. B.Padmanabhamurty, "On optimization of air quality monitoring network" Ministry of Environment & Forests, G.O.I.

2. B. Padmanabhamurty, "Boundary Layer Studies with MONTBLEX data at Kharagpur & Jodhpur" Ministry of Science & Technology, G.O.I.

3. P.S. Ramakrishnan, Coordinating Project for the South Asian Regional Network (SARNET) of the Tropical Soil Biology & Fertility Programme (TSBF), Nairobi. (1994-95), jointly with Dr. K.G. Saxena.
4. P.S. Ramakrishnan, McArthur Foundation Funded project on "Biodiversity Conservation Within the Context of Traditional Knowledge and Ecosystem Rehabilitation" and its coordination (jointly with Dr. K.G. Saxena) involving UNESCO, New Delhi, Kerala Forest Research Institute, Karnataka Forest Department and G.B. Pant Institute of Himalayan Environment and Development (1995-1997).
5. P.S. Ramakrishnan, Invited to coordinate the Indian Component of the Inter-Academy Project on 'Population and Landuse Changes', involving Indian National Science Academy, National Academy of Sciences, USA and Chinese Academy of Sciences. With INSA as the model agency. Central Arid Zone Research Institute, Jodhpur and Centre for Developmental Studies, Thiruvananthapuram will be involved, along with a network of other Institutions from the two regions.
6. V. Rajamani, Crustal genesis and Mineralization in the Eastern Dharwar Craton, South India, National Science Foundation (USA)
7. D.K. Banerjee, PAH Analysis - Standardization of Methods, Central Pollution Control Board, Delhi
8. A.K. Bhattacharyya, Studies on some of the Organo-Chlorinated Pesticides and Polychlorinated Biphenyl (PCBs) in Yamuna River Sediments around Delhi, UGC.
9. Syed. I. Hasnain, Hydrochemistry of Gangotri glacier meltwater", DST, April 1995-April 1998.
10. J. Behari, Dielectric parameters of soil at microwave frequencies (DST) w.e.f. 1.4.95.
11. Kasturi Datta, Regulation of fertilization and sperm motility by hyaluronectin, a cell surface receptor of hyaluronic acid. Deptt of Biotech.
12. Kasturi Datta, Studies on hyaluronic acid-binding protein phosphorylation and dephosphorylation in cell transformation. CSIR
13. Kasturi Datta, Regulation of gene expression of hyaluronan binding protein in transformed fibroblasts and its role in tumorigenesis. DST
14. # A.K. Bhattacharyya, Studies on some physico-chemical properties of solid wastes generated in Wazirpur Industrial area of Delhi.

15. # Brij Gopal, Editing a series of volumes "Limnology in Developing Countries: for SIL, USA.
16. # Brij Gopal, Preparing a Directory of Limnology and Wetland Science in Developing Countries.
17. # J. Behari, Amplitutude modulated radiofrequency field effects on osteoporotic bone.

SCHOOL OF LIFE SCIENCES

18. R. Bamezai and N.Z. Baquer, Molecular, Genetic and Biochemical analysis of Pruvate Kinase Metabolic Regulation in Bloom Syndrome Cells", Sponsored by Department of Biotechnology, 1995.
19. G.S. Singhal, Biochemical and Molecular Characterization of Photosystem II proteins under Different Environmental Stress in Wheat, Department of Biotechnology (1993-96).
20. Asis Datta, Isolation and Characterization of genes encoding storage proteins from Amaranthus, DBT, Government of India (1990 -).
21. Asis Datta, Molecular analysis of Deaminase gene from C. albicans, DAE, Governement of India (1992-95).
22. Asis Datta, Production of recombinant oxalate decarboxylase to develop a diagnostic kit, DBT, Government of India (1992-96).
23. Asis Datta, Genes involved in mating pathway in pathogenic Candida albicans, CSIR, Government of India (1994-97).
24. Asis Datta, Biotechnology of Amaranthus Development of novel Plants/transgenic of vegetable amaranthus with low oxalate and nitrate level, DBT, Government of India (1995-98)
25. Sipra Guha Mukherjee, (Co-orinator), Studies on Differentiation in Tissue Culture Genetic Engineering of Cicer and Braassica, Centre for Plant Molecular Biology, DBT, (1990 -).
26. Sipra Guha Mukherjee, Induction of somatic embryogenesis, DST, Government of India, 1995.
27. Prasanna Mohanty, Analysis of temperature effect on energy transfer and electron transport processes in higher plants and algae, DST, B6.1, Government of India.

28. Parasanna Mohanty, Molecular mechanisms of stress impairment in cyanobacteria. Analysis of UVB, light and temperature stress CSIR (09/0374/EMRII, Government of India.
29. M. Habibulla, Ocellar modulation of flight Honey Bees. R and D of Defence Department, Govt. of India.
30. # M. Habibulla, Serotonin.
31. # M. Habibulla, Suprachiasmatic nucleus and circadian rhythms.
32. # M. Habibulla, Frontal ganglionic system of the cockroach.
33. Sopory, S.K., Glyoxalase I : Physiological studies and molecular cloning, Dept. of Science and Technology.
34. Sopory, S.K., Role of protein phosphorylation in light mediated gene expression, CCMB Project, Dept. of Biotechnology (1990 -).
35. Prasad, R., Multi drug resistance in *Candida albicans*, DBT, 1994-1997.
36. Prasad, R., Characterization of proline permease of *Candida albicans*, DST, 1994-97.
37. Prasad, R., Utilization of hemicellulose by yeast, European Commission, 1994-1998.
38. Goyle, Shobha, K.C. Upadhyaya and Meera Gupta, Molecular analysis of the deletion pattern in the dystrophin gene in Indian Duchenne/Becker Muscular Dystrophy Patients. DBT, Govt. of India (1995-1998)
39. Goyle Shobha and Meera Gupta, Molecular diagnosis for carrier status in female relative among patients with Duchenne and Becker muscular dystrophy; ICMR, 1995.
40. K.C. Upadhyaya, Expression of plant defense genes : Role of 5'-upstream region in transcriptional activation. Dept. of Biotechnology (a part of Centre for Plant Molecular Biology - DBT (1990 -).
41. K.C. Upadhyaya, Analysis of role of calmodulin in plant development using antisense RNA technology, CSIR (1994 -).
42. K.C. Upadhyaya, Role of 5'-upstream DNA sequences in expression of plant calmodulin gene - Department of Science and Technology (1994 -).
43. # K.C. Upadhyaya, Study of retrotransposons in pigeon pea.

44. R.K. Saxena, Properties and characterization of non interleukin-2 proliferation inducing activity released in mouse spleen cells undergoing mixed lymphocyte reaction, CSIR.
45. R.K. Saxena, MHC I antigen expression augmenting factor (MEAF), A new immunomodulatory cytokine :Purification, characterization and sequencing, DBT.
46. R.K. Saxena, Biochemical and Immunological Characterization of Antigens Secreted by Indian Isolates of Mycobacterium Tuberculosis and their Derivatives (with Dr. Ian Orme, University of Colorado, CO. USA as US counterpart) Indo-US VAP (Vaccine Action Programme) grant from Department of Biotechnology.
47. # R.K. Saxena (SLS), Development of a immunodiagnostic test for tuberculosis based upon the detection of secretory antigens of M. tuberculosis in the body fluids from tuberculosis patients.
48. # R.K. Saxena, (SLS), Development of an invitro system to study immune mechanisms responsible for the clearance of aging erythrocytes.
49. Alok Bhattacharya, Functional and structural characterization of a novel glycolipid antigen from Entamoeba histolytica, CSIR.
50. Alok Bhattacharya, Genome analysis of Entamoeba histolytica complication of cDNA sequences from the trophozoites of pathogenic axenic strain HM-1: 1MSS. DBT, Government of India.
51. Alok Bhattacharya, Molecular and functioning analysis of a novel calcium binding protein of Entamoeba histolytica, DST.
52. R.N.K. Bamezai and N.Z. Baquer, "Molecular genetic and biochemical analysis of pyruvate kinase metabolic regulation in bloom syndrome cells, DBT.
53. R.N.K. Bamezai, "Cancer antigen cytogenetic and molecular studies in a carcinogen transformed bloom syndrome B-lymphoid cell line, DAE.
54. P.K. Yadava, Targated inactivation of gene function by cognate ribozymes : Development of model ribozyme delivery vectors (sponsored by the Department of Biotechnology, Govt. of India).
55. P.K. Yadava, Construction of chimeric peptide for antigen display and delivery using the Salmonella flagellinas' carrier molecule (supported only by core grants).
56. # P.K. Yadava (SLS), Cloning of autoprocessive proteins of lux A lineage from higher eukaryotes. (Proposal submitted to UGC for financial support).

57. R. Madhubala, Malarial puravite : Ornithine decarboxylase as a potential target for chemotherapy and molecular mechanism of drug resistance. Department of Biotechnology.
58. R. Madhubala, Gene amplification and drug resistance in lushmania supported by Rockfellow Foundation as a part of Biotechnology Cancer Fellowship and sponsored by Dr. K. Shart, Director, Seattle Biomedical Research Institute, Seattle, USA.
59. R. Madhubala and K. Stuart, Leishmania Genome Project. World Health Organization.
60. B.N. Mallik, To study the influence of sleep wakefulness brain areas on REM generating area neuronal activity and their responses to REM deprivation in freely moving animals. Department of Biotechnology, Govt. of India..
61. B.N. Mallick, Possible mechanism of norepinephrine induced POAH mediated independent regulation of sleep wakefulness and thermorgulation - CSIR.
62. B.N. Mallick, To investigate the mechanim of REM sleep deprivation induced increase in Na-k ATPase activity in rat brain. ICMR.
63. Neera Bhalla Sarin and P.K. Yadava, Regeneration and. Transformation of Legumes, DST.
64. Neera Bhalla Sarin, Purification of DAHP synthase its subcellular partitioning and regulation during growth and differentiation in Brassica Juncea - CSIR.
65. Neera Bhalla Sarin, Isolation of glyphosate tolerant lines of Arachis hypogoea and investigtions on the mechanism of tolerance. UGC.
66. B.C. Tripathy, Chloroplast biogenesis and the greening processes (DBT).
67. B.C. Tripathy, Photodynamic reactions in plants (CSIR).
68. P.C. Rath, Cloning, sequence, methylation and transcriptional analysis of the EcoRI repetitive DNA from the rat brain, Department of Science and Technoloigy, India.
69. P.C. Rath, Cloning of gene(s) specifically condensed in the skeletal muscle chromatin of the rat, Council of Scientific and Industrial Research, India.
70. # R.K. Saxena, Development of a immunodiagnostic test for tuberculosis based upon the detection of secretory antigens of M. tuberculosis in the body fluids from tuberculosis patients.
71. # R.K. Saxena, Development of an in vitro system to study immune mechanisms responsible for the clearnace of aging erythrocytes.

72. # P.C. Rath, Structure and expression of Interferon Regulatory Factor-1 (IRF-1) gene of mouse.

SCHOOL OF PHYSICAL SCIENCES

73. H.B.Bohidar, "Characterisation of Macromolecules by Laser Light Scattering", DST, Govt. of India (1992-95).
74. H.B.Bohidar, "Brillouin Scattering Studies of Visco- Elastic Properties of Biopolymers", DST, (1994-97).
75. H.B.Bohidar, "Development of Laser Electro-Optic Biosensor for Imtiunoassay of Aids", DBT (1995-97).
76. R.Ghosh, "Generation & Detection of nonclassical light in Nonlinear Optical Processes", DST (1994-97).
77. D. Kumar with R.Ramaswamy(SPS), "Dynamics of Interactive Systems", DST.
78. S.S.N.Murthy, "Study of Glass Formation in Aqueous Solutions for Use in Cryopreservation of Biological Systems", DST, Govt. of India.
79. R.Ramaswamy, "Dynamics of Spatial Extended Nonlinear Systems", CSIR.
80. R.Ramaswamy with A.K.Rastogi, "Non-Linear Science Laboratory", Rajiv Gandhi Research Grant for Innovative Ideas in Science and Technology, Jawaharlal Nehru Centre for Advanced Scientific Research.

CENTRE FOR BIOTECHNOLOGY

83. Kunal B. Roy, Studies on molecular recognition by synthetic circular oligonucleotides : formation of DNA triplex or tetraplex in presence or absence of DNA-binding peptides. Department of Science & Technology, Govt. of India.
84. Kunal B. Roy, (with Dr. H. Bohidar, SPS) "Development of Laser electro optic biosensor for immuno assay of AIDS in blood" Department of Biotechnology, Govt. of India.
85. H.K. Das, Genetic Engineering unit (core support for the facility), Department of Biotechnology, Govt. of India.
86. H.K. Das, Recombination function in the polyploid diazotraph *Azotobacter vinelandii*, Department of Atomic Energy, Govt. of India.

87. H.K. Das, Regulation of DNA gyrase expression in *Klebsiella pneumoniae*, Department of Science and Technology, Govt. of India.
88. H.K. Das, The regulatory operons of nitrogen fixation : their structure and expression, Department of Biotechnology, Govt. of India.
89. Rakesh Bhatnagar, Molecular cloning and characterization of detransucrase gene from *Leuconostoc mesenteroides* NRRL B-512F, Indian Council of Medical Research, New Delhi.
90. Rakesh Bhatnagar, Immunotoxin - A novel approach to target eosinophil granule proteins to microfilariae of *brugia malayi*, Department of Atomic Energy, Bombay
91. Rakesh Bhatnagar, Molecular cloning and expression of a mutagenized variant of *Bacillus anthracis* protective antigen, Department of Biotechnology, New Delhi.
92. Rakesh Bhatnagar, Production of a recombinant vaccine against anthrax, Ministry of Defence, New Delhi.
91. S.K. Kar, Immunological aspects of flaking of human scalp, Global Dermatological Laboratory, New Delhi.
92. Uttam Pati, Structure, function and Assembly of Human RNA Pol II, Department of Science & Technology, Govt. of India.
93. Rajiv Bhat, Effect of solvents on the thermal stability of proteins, Department of Science & Technology, Govt. of India.
94. # Uttam Pati, Searching for Genetic Markers in Cardiac Diseases
95. # Rakesh Bhatnagar, Molecular cloning and expression of stress proteins in *Leishmania donovani*
96. # S.K. Kar, Structure function relationship of Interleukin 1B peptides.
97. # S.K. Kar, Cytokine profile in Lymphatic filariasis.
98. # S.K. Kar, Mapping the active site of a plant ribosome inactivating protein - Gelonin.
99. # Rajiv Bhat, Solvent mediated protein refolding.
100. # Rajiv Bhat, Differential scanning calorimetric and spectroscopic studies on the conformational stability of proteins.
101. # K.J. Mukherjee, Cloning and expression of cephalosporin acylase.

102. # K.J. Mukherjee, Studies on the high level expression of penicillin acylase in recombinant E. coli.
103. # K.J. Mukherjee, Study of CGTase expression in recombinant E. coli & Bacillus.
104. # K.J. Mukherjee, Study of B-galctasidase expression in recombinant yeast.
105. # K.B. Roy, Cloning, expression and protein engineering of restriction endonuclease, Bam H1.

SCHOOL OF INTERNATIONAL STUDIES

106. K.S. Jawatkar, *Germany in World Politics* to be published in Book.
107. R.C. Sharma, "Contribution of Political Geography".
108. K.V. Kesavan, "Indo-Japanese relations during the inter-war period" (ICHR Sponsored).
109. Alka Acharya, Writing a monograph on "The Chinese Communist Party in the Twenty First Century".
110. Madhu Bhalla, "The Intellectual Roots of India's Foreign Policy".
111. H.S. Prabhakar, Changing Management Practices of Small & Medium Firms in Japan, Japan Foundation, Tokyo, Jan.95 to July 1995.
112. H.S. Prabhakar, Asian Economic Development & Changing Status of Women in Japan & India 95 May 12 and Feb.28, 96.
113. Bhagwan Das Arora, "Writing a book on Indo-China in the post-cold war years".
114. Dawa Norbu, "In Search of Solutions to Ethnic Conflict".
115. I.N. Mukherji, "South Asian Preferential Trading Arrangement", International Development Research Centre, Ottawa, Canada.
- 116.B. Vivekanandan, "Indo-British Relations, 1947-1984".
- 117.B. Vivekanandan, "A Comparative Study of the International Perspectives of Bruno Kreisky, Willy Brandt and Olof Palme".
118. R.R. Sharma, "Paradoxes of Transition in Central Asia" (Major Project), UGC.

119. Zafar Imam, "The Role of Islam in Contemporary International Politics : A Case-Study of Organisation of Islamic Conference (OIC)".
120. Shashi Kant Jha, "Hungarian Minority in East Europe".
121. Sandwip K. Das, "NAFTA and India : Issue in Trade and Foreign Investment".
122. Yogesh K. Tyagi, "Conceptual Constraints in Confidence-Building Measures in the Field of Human Rights".
123. V.S. Mani, "A Draft Space Legislation for India - Department of Space/ISRO, Govt. of India".
124. V.S. Mani, "Recent Trends in International Space Law and Policy-Department of Space/ISRO, Govt. of India".
125. V.S. Mani, "The Development of Space Law and the Developing Countries-Dept. of Space/ISRO, Govt. of India".
126. Vijay Gupta, Preparation of Bibliography and Collection of Documents on India and Indians in South Africa, ICSSR, 1995.

SCHOOL OF LANGUAGES

Centre of French Studies

126. Kiran Chaudhry. Hindi-French Language dictionary (Central Hindi Directorate. Ministry of Education).
127. # C.Krishnamurthy. Working on multilingual computer based dictionary.
128. # Rita Sil, (1) Bengali-French dictionary; (2) Indian culture, unifying factor in world civilisation. (Book); (3) Indain and the French Revolution (Book).

Centre of Indian Languages

129. S.P. Sudhesh, writing a critical book entitled 'Sahaj Kavita Ki Bhoomika'.
130. S.P. Sudhesh, Preparing a critical Bibliography of comparative literary studies in Hindi.

Centre for Japanese & North-East Asian Languages

131. Rajendra Tomar, "Japan and the Paris Peace Conference, 1919", under publication.

132. Rajendra Tomar, Writing Text Book on "Kanji Writing", providing guidelines for writing Japanese script for under-graduate students.
133. Rajendra Tomar, Writing a book of ancient & medieval history of Japan bearing the title, "Japan - Pre - Restoration"
134. Prem Motwani, (ed.) *New India*, (A book on rapidly changing facets of India for the Japanese audience to be published in Japanese by the Jijitushin Publishing Co.
135. Sushama Jain, Writing a book on "Methods of Teaching Japanese to Hindi Speaking learners" (a part of which was a visit to Japan as a professional fellow, sponsored by Japan Foundation.
136. Anita Khanna, Writing a text book titled, "Introduction to Japanese Literature" (in English) for undergraduate students.

Centre of Linguistics & English

137. Ania Loomba, '*Of Queens Spices*' - *Renaissance Drama Journeys to the East*" forthcoming book.
138. Ania Loomba, *Colonialist Discourses/Post-Colonial Theory* - forthcoming book to be published by Routledge.
139. Franson Manjali, Knowledge and Language: The Composite View Emerging from Linguistics, Psychology, Philosophy, AI, Neuroscience and Cognitive Anthropology.
140. Meenakshi Mukerjee, Editing a Nineteenth Century English text with annotations and a critical introduction: *Rajmohan's Wife* by Bankimchandra Chatterjee 1864. (to be published soon).
141. R.S. Gupta, Editing a volume of essays on "Dimensions of Literary Translation".
142. R.S. Gupta, Editing a volume of essays on "Patterns of Harmony and Conflict: Studies in Indian Sociolinguistics".
143. Anvita Abbi, *The Ethnic Space: Languages of Tribal and Indigenous Peoples of India* (in press) to be published by Motilal Banarsi Dass.

Centre of Russian Studies

144. Y.C. Bhatnagar 'Russian Language Teaching in India (major project) U.G.C., New Delhi.

145. Varyam Singh, 'Working on the IInd part of Two Centuries of Russian Poetry'.

Centre of Spansih Studies

146. S.P. Ganguly, Preparing a Monograph on and Anthology of Contemporary Spanish Poetry.
147. S.P. Ganguly, Working on Monograph on "Indian Themes in Spanish Texts".
148. Madan Lal, Davil Sukhantiki (Part I, VII, Cantos of Inferno part of the Divine Comedy) from Italian into Hindi.
149. Madan Lal, Discovering Similarities in Italian, Hindi and English Languages (a comparative research project on three languages).

Group of Philosophy

150. Suman Gupta, "Spinoza, Locke and Kant - Materialist or Idealist: Rationalist or Empiricist - A Reassessment".

SCHOOL OF SOCIAL SCIENCES

Centre for Study of Economic Studies and Planning

151. Sheila Bhalla, Trend Report on Employment and Wage Policy, ICSSR, New Delhi.
152. Utsa Patnaik, "Chinese Economic Development", Institute of Chinese Studies, CSDS, Delhi.
153. # Anjan Mukherji, "Weak Axion of Revealed Preference and Stability : An Aggregation Problem".
154. # Pradipta Chaudhury, "Caste, Class and Conflict in India during British Rule".

Centre for Historical Studies

155. Mridula Mukherjee, History of Indian National Congress, ICSSR, ICHR, JNU.
156. B.D. Chattopadhyaya, Source Book of Ancient Indian History. NCERT, New Delhi
157. B.D. Chattopadhyaya, Archaeological Atlas, Deptt. of Archaeology, West Bengal.
158. Satish Saberwal, Societal Designs in History, Phase 2, China, ICSSR.

159. R. Champakalakshmi, *Concordance on Early Tamil Texts*, ICHR.
160. K.N. Panikkar, *Intellectual History of Colonial India*, UGC.
161. Muzaffar Alam, *Medieval History and Urbanization with special reference to Chanderi*, with Prof. K.L. Sharma, CSSS, SSS, JNU and Prof. G. Fussman and his team, *College de France & CNRS, Paris*.
162. Suvira Jaiswal, *Social Stratification in Ancient and Early Medieval India*, ICHR.

Centre for Political Studies

163. #Kiran Saxena, Working on a project : RSS, BJP and Mass fronts.
164. # Kiran Saxena, Writing a monograph Rethinking Indian Ranaissance.
165. # Zoya Hasan, Finishing a book on Oppositional Movements and Political Change in North India.

Centre of Social Medicine & Community Health

166. Raima Baru, "Regional Variations in Non-Government Health Services" UNDP.

Centre for the Study of Regional Development

167. Ahmad, A., *ICSSR Journal of Abstracts and Provisions: Geography*, Indian Council of Social Science Research, New Delhi.
168. Chadha, G.K., with G.S. Bhalla, *Growth in Indian Agriculture : A District-Level Study*, Planning Commission (1995)
169. Kidwai, Atiya, *Regional Pattern and Trends of Urbanisation and Urban Growth in Colonial India '1872-1931'*, Indian Council for Historical Research.
170. Kumar, Naresh, *Atlas of Man and Women*, British Council, New Delhi, 1994-96.
171. Kumar. Satish., with Amitabh Kundu, *Industrial Growth in Small and Medium Towns and Their Vertical Integration with National and International Production Systems*, Indo-French UNESCO, (MOST) Project, 1995.
172. Kundu A, *Provision of Basic Services in Urban Areas*, ICSSR under Indo Dutch (IDPAD) programme, 1995-97.
173. Nangia, S. with S.K. Thorat, *Slums and the Environment*, DSA, CSRD, JNU.

174. Nangia, S., Population and Sustainable Development in Great Himalayan National Park, Wildlife Institute of India, Dehra Dun.
 175. Premi, M.K., with S. Raju, Imbalance in Juvenile Sex Ratio in Madhya Pradesh and Rajasthan, Deptt. of Women and Child Development, Government of India (1994-95).
 176. Raju, S., with M.K. Premi, Gender Atlas of India, British Council, New Delhi, India (1994-97).
 178. Raju, S., Ecology, Female Labour and Culture, DSA/CSRD/JNU (1995-1996).
 179. Sharma, R.K., Government Intervention in Food Security at Micro-Level : A Study of Public Distribution system in Uttar Pradesh and Bihar, United Nations Development Programme (1994-95).
 180. Sinha, S., Epidemiological Transition in India : Some Social, Economic and Environmental Linkages", DSA/CSRD/JNU.
 181. Thorat, S.K., Rainfed Farming in India : Growth Performance and Policies, IFPRI, Washington D.C.
 182. Thorat, S.K., Rural Poverty Land Distribution and Agricultural Growth in India, IFPRI, Washington, D.C.
 183. # Kidwai, Atiya, Geographical Issues in Urban Research monograph requisitioned by Orient Longman, Calcutta.
 184. # Kumar, Satish, Gender Based Research in Social Sciences: Avoiding Male Bias in a Female Domain.
 185. # Kumar, Satish, Vanishing Borders, Economic Alignments: Towards Global and Regional Intergration.
 186. # Kumar, Satish., with Kalyan Das, Determinants of Small Town Growth; A case Study of Maharashtra, Rajasthan and Orissa, 1961-91.
 187. # Sinha, S., Financing Health Care in India : A Case Study of CGHS, Delhi, 1994-95.
 188. # Sivasami, S.S., Artificial Recharge of Ground Water in the Union Territory of Delhi, Government of India, Central Ground Water Board.
- Centre for the Studies in Science Policy**
189. A. Vasantha, "An Overview Volume covering nineteenth century science in India". Project of History of Indian Science, Philosophy and Culture (PHISPC).

190. # A. Vasantha, *Science and Social Policies of India - A Compendium*.

Centre for the Study of Social Systems

191. R.K. Jain, "Digambar Jains of North India", sponsored by Indian Institute of Advanced Studies, Shimla.
192. Dipanker Gupta, "Farmers' Mobilization in West U.P." sponsored by ICSSR.
193. J.S. Gandhi, "Sociology of Drug Addiction Inclusive of Its Curative Aspects", sponsored by the University Grants Commisiion.
194. Nandu Ram, "Dalit Movements for Self-Liberation : A Sociological Study of Ravidas and Buddhist Movements in North India", sponsored by the DSA, CSSS, SSS, JNU, New Delhi.
195. Nandu Ram, "Challenges to Family of Working Parents in Delhi", sponsored by the Ministry of Welfare, Government of India, New Delhi.
196. Nandu Ram, "Atrocities on Weaker Sections and State of Rehabilitation Measures" sponsored by Ambedkar Foundation, Government of India, New Delhi.

Zakir Husain Centre for Educational Studies

197. Geetha B. Nambissan, *Poverty, Social Discrimination and the Schooling of Dalit Children in Rajasthan - a Study of Two Districts*, UNDP, Ministry of Economic Affairs.
198. Karuna Chanana, *Women in Educational Administration in India and Canada*, Shastri-Indo Canadian Institute, New Delhi. In Collaboration with Dr. J. Indiresan, NIEPA, New Delhi and Prof. Ratna Ghosh, Mc Gill University, Montreal, Canada.
199. Sushila Singhal, Planning Commission funded Research Project on Financing of Secondary Education in India.

Unsponsored Projects

RESEARCH SCHOLARS

DOCTOR OF PHILOSOPHY (PH.D)

SCHOOL OF COMPUTER AND SYSTEMS SCIENCES

1. Mr. M.V. Sreenivas, "Process Recovery in Message Passing Distributed Systems Using Dependency Graphs", Dr. Subhash Bhalla (08.09.1994)
2. Mr. Polepalli Krishna, "Synchronization Based on Data Flow Graphs for Distributed and Replicated Databases", Dr. Subhash Bhalla (07.10.1994)
3. Mr. Pramod Varma K., "Conceptualization and Visualization in Computer Science and Mathematics", Prof. N.K. Nambiar, 25.03.1995.

SCHOOL OF ENVIRONMENTAL SCIENCES

4. Mr. Bikal Kumar Gupta, "Studies on Fractionation and Characterisation of Some Organic Contaminants in River Yamuna Around Delhi", Dr. A.K. Bhattacharya (03.06.1994)
5. Mr. Ravindra Pratap Singh, "An Experimental Investigation of Coagulation of Aerosols as a Function of Concentration and Temperature Using Photon Correlation Technique", Dr. V.K. Jain (10.06.1994)
6. Mr. Balaram Pani, "Speciation of Some Selected Heavy Metals in the Ash Pond Overflow and Leachates from a Thermal Power Plant", Dr. D.K. Banerjee (29.06.1994)
7. Mr. K. Lenin Babu, "Polycyclic Aromatic Hydrocarbons Contamination Associated with Sewage Irrigation and Sludge Amendments", Dr. D.K. Banerjee (05.09.1994)
8. Mr. Subrata Kumar Bohidar, "Metallothionein Synthesis : With Metal Replacement in Organs, and its Localization in Proliferative Lymphocytes", Dr. Jayashri Devi Sharma (25.10.1994)
9. Ms. Piali Chakrabarthy, "A Study of Turbulence Characteristics of the Surface Boundary Layer", Prof. Padmanabhamurthy (11.11.1994)
10. Mr. R. Sreenivasan, "Modelling and Simulation of Meltwater Runoff Process in a Himalayan Region", Dr. S.I. Hasnain (01.12.1994)

11. Mr. Somnath Bandyopadhyay, "An Ecological Study of the Macroinvertebrate Community in a Floodplain Wetland", Dr. Brij Gopal (03.12.1994)
12. Mr. Adhar Chandra Manna, "Molecular Characterization of the Leucine Operon and Chromosomal Analysis of *Azotobacter Vinelandii*", Prof. H.K. Das (15.12.1994)
13. Mr. Shiv Kumar Bansal, "Trace Element Geochemistry and Partitioning Patterns in Sediment Cores from the Lakshadweep Sea", Prof. V. Asthana (30.12.1994)
14. Mr. Binod Bihari Dash, "Modelling Green House-Gas-Induced Climate Change", Dr. V.K. Jain, 02.01.1995.
15. Ms. Jyoti Rani Ahlawat, "Modelling Air Quality in Tropical Coastal Environment", Prof. B. Padmanabhamurty, 24.03.1995.
16. Mr. C. Ravichandran, "Some Meteorological Aspects of Air Pollution at Delhi", Prof. B. Padmanabhamurty, 22.02.1995.

SCHOOL OF LIFE SCIENCES

17. Mr. Amit Kumar Saxena, "Role of Vanadate on Carbohydrate Metabolism in Experimental Diabetes", Prof. N.Z. Baquer (13.05.1994)
18. Mr. Jayendra Prasad, "Molecular Cloning and Characterisation of a gene encoding an antigenic calcium binding protein from a pathogenic strain of *Entamoeba Histolytica*", Dr. Alok Bhattacharya (08.06.1994)
19. Ms. Seema Gulyani, "Rapid Eye Movement Sleep (REM) Deprivation and Na-K ATPase", Dr. B.N. Mallick (05.09.1994)
20. Mrs. Poonam Saxena, "Role of Free Radicals in Experimental Diabetes", Dr. R.K. Kale & Prof. N.Z. Baquer (04.10.1994)
21. Ms. Lakshmi Sarma, "Studies on the Modification of the Radiobiological Damage by Caffeine, Vitamins C and E and Thiols Using a Mammalian Test System", Prof. P.C. Kesavan (08.12.1994)
22. Mr. Sushil Jacob John, "Molecular and Biochemical Studies on the Branched Chain Amino Acids Biosynthetic Pathway in *Brassica and Cicer*", Prof. Sipra Guha Mukherjee, 02.01.1995.
23. Mr. Nandula Raghuram, "Signal Transduction and Nitrate Reductase Gene Expression in Maize", Prof. S.K. Sopory, 02.01.1995.
24. Mr. Raj Kishore Khaware, "Biochemical Characterization of Salt Stress in Yeast", Prof. Rajendra Prasad, 25.01.1995.

25. Mr. Kolli Bala Krishna, "Endoxylanase from *Bacillus Thermoalkalophilus* Characterization of the Enzyme and Molecular Cloning of the Gene", Prof. A.K. Varma, 25.01.1995.
26. Ms. Roopa Sharma Luthra, "Studies in the Glyoxalase System", Dr. R.K. Kale, 06.02.1995.
27. Mr. Jose Mathew, "Actions of Some Chemical Carcinogene on the Growth and Differentiation in *Dictyostelium Discoideum*", Prof. S. Chatterjee, 22.02.1995.
28. Ms. Anju Ecavade, "Influence of Certain Antifertility Agents on Murine Mammary Model System", Prof. A.R. Rao, 22.02.1995.
29. Ms. Valsala Haridas, "Role of the Major Histocompatibility Antigens in Determining the Susceptibility of Tumor Target Cells to Lymphokine Activated Killer Cells", Prof. R.K. Saxena, 22.02.1995.
30. Ms. Shehla Hashim, "Modulation of Carcinogenesis by Translactationally Delivered Xenobiotic Chemicals in Mice", Prof. A.R. Rao & Co-Sup: Dr. R. Madhubala, 22.02.1995.
31. Mr. Parveen Kumar Garg, "Ethnobotanical Survey of Madhya Pradesh", Prof. J. Ashraf, 02.05.1995.

SCHOOL OF PHYSICAL SICENCES

32. Mr. Yudhisthira Sahoo, "Electronic Transport Properties of V4-Cluster Compounds", Dr. A.K. Rastogi (08.08.1994)
33. Mr. Bibudhananda Biswal, "Relaxation and Growth Kinetics in Disordered Magnets", Prof. Deepak Kumar (05.09.1994)
34. Ms. Nita Parekh, "Pattern Formation in Spatially Extended Systems", Dr. Sanjay Puri, 02.01.1995.

SCHOOL OF LANGUAGES

35. Mr. Sudhakar Dwivedi, "Prasad Ke Katha Sehitye Ka Samaj Shastriya Adhyayan", Centre of Indian Languages, Prof. K.N. Singh (03.06.1994)
36. Mr. Azizur Rahman, "A Comparative Study of Urdu and Hindi Novels on Partition", Centre of Indian Languages, Prof. K.N. Singh (21.07.1994)
37. Mr. Quaisaruzzaman, "Sociological Study of Sarshar's Novel Fasana-e-Azad", Centre of Indian Languages, Dr. Ashfaq M. Khan (01.09.1994)

38. Mr. Mohammad Khalid Ali, "Kulliyat-e-Maulana Mohammad Hussain Azad Ka Tahqeeqi Va Tanqeedi Mutalea", Centre of Indian Languages, Prof. S.R. Kidwai (22.09.1994)
39. Mr. Veeresh Kumar, "Vidyapati Aur Soordas Ke Geeti Kavya Ka Tulnatmak Adhyayan", Centre of Indian Languages, Prof. K.N. Singh (25.10.1994)
40. Mr. Ramesh Kumar, "Aarambhik Hindi Alochana Ke Vikas Men Sahityik Vivadon Ka Yogdan", Centre of Indian Languages, Prof. Manager Pandey (14.10.1994)
41. Mr. Shishir Kumar Pandey, "Hindi Men Sahityik Patrikarta Ka Vikas Aur Matwala", Prof. K.N. Singh, 02.01.1995.
42. Mr. Shambhu Nath, "Mishrabandhu Ke Alochana-Karm Ka Punarmulyakan", Prof. Namwar Singh, 24.03.1995.
43. Mr. Mahesh Chandra Chaudhary, "Samkaleen Bhartiya Sahitya Kee Pramukh Praviritiyan (Mukhya Sandarbh - Samkaleen Bhartiya Sahitya Mein Prakasht Kritiyan)", Prof. K.N. Singh, 24.03.1995.
44. Mr. Jameel Akhtar, "A Critical Study of Fiction of Qurratul-ain Haider", Dr. Naseer Ahmad Khan, 06.04.1995.
45. Mr. Mujahid Ul Islam, "Farhang Kulliyat-E-Sauda (Glossary of Sauda's Poetic Works)", Prof. S.R. Kidwai, 05.05.1995.
46. Mr. K. Madavane, "Le theatre d'Ionesco: Le Mort en Representation", Centre of French Studies, Prof. K.J. Mahale (22.08.1994)
47. Mr. Poulasti Kumar, "L'Esthetique d' Andre Malraux", Dr. Rita D. Sil, 05.05.1995.
48. Ms. Shaswati Mazumdar, "Lion Feucht-Wangers Beschäftigung mit der Indischen Kolonial geschichte Von "Warren Hastings Governor Von Indian Ze Kal-kutta, 4 Mai", Centre of German Studies, Prof. Anil Bhatti (27.09.1994)
49. Ms. Sadhana Naithani, "Politik Der Liebe : Eine Interpretative Studie Der Dar-stellung Der Fran-Mann Beziehung in Deutschen Volksliedern Vom 17. bis 19. Jahrhundert", Centre of German Studies, Dr. Rajendra Prasad Jain (27.09.1994)
50. Mr. T. Vijay Kumar, "Talking Drums : Themes and Narrative Modes in Six Post-Colonial African Novels", Centre for Linguistics & English, Prof. Meenakshi Mukherjee (11.11.1994)

51. Mrs. Janaky Sreedharan, "Women at Stake : The Constitution of Feminine Subjectivity in Mahabharata with reference to the Draupadi Narrative", Centre of Linguistics & English, Prof. Meenakshi Mukherjee (15.12.1994)
52. Mr. Omran Salman Musa, "Modern Literacy Trends in Persian as Reflected in the Writings of Sadeq Hedayat", Centre of African & Asian Languages, Prof. A.W. Azhar (16.11.1994)
53. Ms. Anna Mathews, "Examining the Literary Forms in the Context of Culture of the Synoptic Gospels *A Study of the Marcan Narrative*", Dr. Kapil Kapoor, 02.01.1995.
54. Mr. Mahadeva, "Myth & Rituals in the Plays of Wole Soyinka", Meenakshi Mukherjee, 22.02.1995.
55. Ms. Mahua Rawat, "Discourse of Interpersonal Communication Behavior in Japan : A Samiotic Analysis of Sociological Texts", Prof. H.S. Gill, 24.03.1995.
56. Mr. Abhay Kumar Lal, "Structural Criticism of Roland Barthes and its Application to the Novel *Parati Parikatha* by Phanishwar Nath Renu", Dr. Pratap Sengupta, 02.01.1995.

SCHOOL OF INTERNATIONAL STUDIES

57. Mr. Randhir Singh, "US Policy Towards International Drug Trafficking : 1981-88", Centre for American & West European Studies, Prof. B.K. Shrivastava, (14.06.1994).
58. Mr. M.S. Verma, "Indo-German Perspectives on "Development-Co-operation" (1969-1982), Centre for American & West European Studies, Prof. H.S. Chopra (21.07.1994)
59. Ms. Anjana Mangalagiri, "U.S. Investments and Denationalization of Mexican Economy", Centre for American & West European Studies, Prof. R. Narayanan (08.09.1994)
60. Mr. Prabhati Prasad Nautiyal, "Mexican Intellectuals' Perception of Nationalism during 1900-1930", Centre for American & West European Studies, Prof. R. Narayanan (12.09.1994)
61. Mr. Thomas Mathew, "U.S.-Pakistan Security Relations : 1977-1988", Centre for American & West European Studies, Prof. R.P. Kaushik, 26.04.1995.
62. Ms. Sanghamitra Patnaik, "From Marcos to Aquino-US Role in the Democratic Revolution of the Philippines", Centre for American & West European Studies, Prof. B.K. Shrivastava, 02.05.1995.

63. Ms. Anita Das, "United States Policy Towards Indonesia : Beyond the Vietnam War 1975-1988", Centre for American & West European Studies, Prof. B.K. Srivastava, 05.05.1995.
64. Mr. Sharad Kumar Soni, "Mongolia and the Soviet Union : A Study of Unequal Relationship, 1921-1952", Centre for South, Central South East Asian and South West Pacific Studies, Dr. K. Warikoo (10.06.1994)
65. Ms. Ritu Bhagat, "The Muslim League and the Movement for Pakistan, 1940-1946 (with special reference to Muslim Majority Provinces)", Centre for South, Central South East Asian and South West Pacific Studies, Dr. Uma Singh (21.07.1994)
66. Mr. Makmur Keliat, "The South China Sea Disputes : A Case Study of the Spratlys", Centre for South, Central South-East Asian & South West Pacific Studies, Dr. Ganganath Jha (24.12.1994)
67. Mr. Sushil Ranjan Howlader, "Agricultural Involution, Rural Differentiation and Economic Impasse : A Comparative Study of Two Villages in Bangladesh", Centre for South, Central, South-East Asian & South-West Pacific Studies, Prof. I.N. Mukherjee, 11.01.1995.
68. Sanjay Kumar Jain, "Cambodian Problem in the Foreign Policies of China and India (1970-1985)", Centre for South, Central, South-East Asian & South-West Pacific Studies, Prof. Parimal Kumar Das, 06.01.1995.
69. Mr. Vinayak Rao Vidyalankar Kota, "Regional Crises and Global Politics: A Comparative Study in the Diplomatic Management of Afghanistan and Kampuchean Problems", Centre for Studies in Diplomacy International Law & Economics, Dr. Pushpesh Pant (14.09.1994)
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205. Mr. Mahesh Daga, "Towards an Ontology of the Social : Bhaskar's Critique of Empiricism and its Implications for Social Science", Centre for Political Studies, Dr. Gurpreet Mahajan, 21.03.1995.
206. Mr. Barendra Nath Dhal, "India's Response to Global Environmental Problems", Centre for Political Studies, Prof. A.K. Ray, 06.04.1995.
207. Mr. Amit Prakash, "Politics and Internal Security : The Role of CRPF in U.P. (1977-91)", Centre for Political Studies, Prof. Kuldeep Mathur, 11.04.1995.
208. Mr. P. Kanagaraj, "The Congress (I) Party in Tamil Nadu : Strategies and Electoral Alliances from 1977 to 1991", Centre for Political Studies, Dr. Sudha Pai, 21.04.1995.
209. Mr. John Brittas A.P., "Freedom of Press in India : Perspective and Issues", Centre for Political Studies, Dr. Kiran Saxena, 21.04.1995.
210. Mr. Keral Prasad Yadav, "Approaches to Tribal Development : A Socio-Historical Perspective", Centre for the Study of Social Systems, Dr. Nandu Ram (01.06.1994)
211. Mr. Nirakar Malik, "Culture, Religion and Politics in Urban India: An Analysis", Centre for the Study of Social Systems, Dr. C.N. Venugopal (01.06.1994)
212. Ms. Nishi Mahotra, "Relavance of an Ethnosociology of India : A Conceptual Study", Centre for the Study of Social Systems, Dr. Dipankar Gupta, 02.06.1994.
213. Mr. Amites Mukhopadhyay, "Rationality and Freedom in Modernity : A Sociological Analysis of the Select Writings of the Critical Theorists", Centre for the Study of Social Systems, Dr. Avijit Pathak (03.06.1994)
214. Mr. Amman Madan, "The Learning of Culture : A Review of the Theoretical Contributions of the Anthropology of Education and the Sociology of Education", Centre for the Study of Social Systems, Dr. Avijit Pathak (22.09.1994)

215. Mr.G. Aloysius, "Nationalism and Nation in India :A Sociological Reading of Colonial Indian History", Centre for the Study of Social Systems, Dr.Avijit Pathak (03.12.1994)
216. Nandini Sarangi, "History and Popular Culture in the Jagannath Cult of Orissa : A Study in Sociocultural Formation", Centre for the Study of Social Systems, Prof. R.K. Jain, 31.01.1995.
217. Ms. Jaya R., "Conceptualisations of Communalism and Secularism in the Print Media : An Analysis of the Organizer and the Radiance News Weekly", Centre for the Study of Social Systems, Prof. R.K. Jain, 19.02.1995.
218. Mr. Vivek Kumar, "Nature and Crisis of Dalit Leadership in India-A Macro Sociological Analysis", Centre for the Study of Social Systems, Dr. Nandu Ram, 19.02.1995.
219. Mr. Kunwar Pal Singh, "Social Identity and Social Movements : A Comparative Study of American Blacks and Indian Dalits", Centre for the Study of Social Systems, Prof. M.N. Panini, 19.02.1995.
220. Ms. Disha Nawani, "Impact of Formal Schooling on Indian Children : A Sociological Enquiry into the Emerging Problems and Proposed Alternatives", Centre for the Study of Social Systems, Dr. Avijit Pathak, 06.04.1995.
221. Ms. R. Lalmuanpuui, "Socio-Political Dimensions of Ethnicity in Post-Independent Mizoram", Centre for the Study of Social Systems, Dr. C.N. Venugopal, 21.04.1995.
222. Ms. Hutten Mingam Anal, "Social Deviance Among the Youth in Indian Society : A Study with Special Reference to Manipur", Centre for the Study of Social Systems, Dr. C.N. Venugopal, 21.04.1995.
223. Ms. Nirupama Singh, "Status of Women and Girl Child in India : A Sociological Analysis", Centre for the Study of Social Systems, Prof. K.L. Sharma, 21.04.1995.
224. Ms. Josyula Lakshmi, "Market Versus Planning ; A Sociological Appraisal of the Debate on Economic Reforms" Centre for the Study of Social Systems, Prof. M.N. Panini, 27.04.1995.
225. Ms. Niharika Barik, "Themes and Issues in Women's Studies in India in Post-Sisty Phase : A Sociological Analysis", Centre for the Study of Social Systems, Dr. J.S. Gandhi, 27.04.1995.
226. Mr. Viraj Verma, "Crime and Society : A Sociological Analysis of the Bawariya Community", Centre for the Study of Social Systems, Prof. K.L. Sharma, 27.04.1995.

227. Ms. Saumya Mishra, "Role of Direct Taxes in Development: A Study in the Indian Context 1970-71 to 1989-90", Centre for Economic Studies & Planning, Dr. Arun Kumar (01.06.1994)
228. Ms. Roopali Garg, "An Analysis of the Influence of Household Composition on Household Consumption Patterns", Centre for Economic Studies & Planning, Dr. D.N. Rao (01.06.1994)
229. Ms. Anuradha Mitra, "Structural Change in Supply Response in Indian Agriculture : A Case Study of Coastal Andhra", Centre for Economic Studies & Planning, Prof. Sheila Bhalla, 03.06.1994.
230. Ms. Shalini Sinha, "Employment and Output in the Organised Manufacturing Sector in India - A Study of the Eighties", Centre for Economic Studies & Planning, Prof. Prabhat Patnaik (22.09.1994)
231. Mr. Sanjeev Singh, "The State of Steel Industry in India : A Comparison of Performances Between Rourkela Steel Plant and Tata Steel Since Mid-1980s", Centre for Economic Studies & Planning, Dr. A.N. Bhat (25.10.1994)
232. Ms. Sumana Bandyopadhyay, "Cement Industry in India: Performance, Problems and Prospects", Centre for Economic Studies & Planning, Dr. D.N. Rao (25.10.1994)
233. Mr. Satyajit Bandyopadhyay, "Investment, Trade and Growth : A Cross-Country Analysis of the Two Gap Model", Centre for Economic Studies and Planning, Dr. Abhijit Sen, 19.02.1995.
234. Mr. Rajesh Kumar Mahapatra, "Food Crisis in Kalahandi, 1960-61 to 1992-93", Centre for Economic Studies & Planning, Prof. Utsa Patnaik, 27.04.1995.
235. Mr. Ajay Jha, "Social Perception of Disease and its Treatment in Medieval India, C. 1500-1800 A.D.", Centre for Historical Studies, Prof. Harbans Mukhia (01.06.1994)
236. Mr. Amitabh Kumar Varma, "Political Biography of Anugrah, Narayan Singh", Centre for Historical Studies, Ms. Mridula Mukherjee (01.06.1994)
237. Mr. Anwar Husain, "The 'Foreigners' and the Indian Society (C.8th Century to 13th Century) : A Study of Epigraphic Evidence from Northern and the Western India", Centre for Historical Studies, Prof. B.D. Chattopadhyaya (01.06.1994)
238. Ms. Mily Roy, "The Institution of Watan and the Village Community in Medieval Maharashtra (17th-19th c.)", Centre for Historical Studies, Dr. Dilbagh Singh (01.06.1994)
239. Mr. R.S. Krishna, "The Colonial State and Popular Religion (with special reference to Hookswinging Ceremony in 19th Century South India)", Centre for Historical Studies, Prof. K.N. Panikkar (01.06.1994)

240. Mr. Anwarul Haque Ansari, "Political & Economic Conditions in the Jaunour Region in 15th & 16th Centuries", Centre for Historical Studies, Dr. K.K. Trivedi (03.06.1994)
241. Mr. Venkatesh Nayak S.S., "Funerary Practices of Magalith Builders in Peninsular India : A Study of Regularity and Variability", Centre for Historical Studies, Dr. S.F. Ratnagar (03.06.1994)
242. Mr. Rahul Ghai, "The Trading Network of Marwar in the Nineteenth Century", Centre for Historical Studies, Dr. Neeladri Bhattacharya (05.07.1994)
243. Mr. Amitabh Tripathi, "The Colonial Construction and Social Identities : A Study of Kabir Panth and Kayastha", Centre for Historical Studies, Prof. K.N. Panikkar (16.11.1994)
244. Mr. Sanjay Kumar, "Formation of Caste Identity in Colonial Bihar", Centre for Historical Studies, Dr. Neeladri Bhattacharya (02.12.1994)
245. Mr. Jose K. John, "Religious Conversion and Change of Social Structures : A Case Study of the Ravidasis of Bihar", Centre for Historical Studies, Prof. Satish Saberwal, 01.01.1995.
246. Ms. Kavita Sivaramakrishna, "British Authority and the 'Criminals-By-Profession'-Policy and Perceptions (1848-C.1920)", Centre for Historical Studies, Dr. M.H. Siddiqi, 21.03.1995.
247. Mr. Subrat Kumar Mohapatra, "Cultural Redefinition of the Oriya Identity (1866-1903)", Centre for Historical Studies, Prof. Satish Saberwal, 21.03.1995.
248. Mr. Vinay Kumar Gupta, "State Paternalism and Popular Legitimacy : Aspects of Caste and Colonial Justice, (1920-1940)", Centre for Historical Studies, Dr. M.H. Siddiqi, 21.03.1995.
249. Ms. Shobhika Sahni, "Evolution of Pre-Satavahana Inscribed Coinage in the Deccan ; A Study", Centre for Historical Studies, Prof. B.D. Chattopadhyaya, 21.04.1995.
250. Ms. Ranjeeta Dutta, "The Social Base of Sri Vaisnavism in Post-Ramanuja Period : From Thirteenth Century to Sixteenth Century", Centre for Historical Studies, Prof. R. Champakalakshmi, 21.04.1995.
251. Mr. Vikram Menon, "Princes Amidst Dissent-The Growth of Political Consciousness in the Princely States of Cochin and Travancore-1920-1938", Centre for Historical Studies, Ms. Mridula Mukherjee, 27.04.1995.

252. Ms. Sudipta Basu, "Communal Politics in Punjab 1945-46", Centre for Historical Studies, Ms. Mridula Mukherjee, 27.04.1995.
253. Mr. M.N. Rajesh, "Socio Religious Context of the Early Chola Temple", Centre for Historical Studies, Prof. R. Champakalakshmi, 27.04.1995.
254. Ms. Archana Verma, "Cultural Flux & its Visual Manifestations in Early India (A Case Study of Valkha Bagh A.D. 358-487)", Centre for Historical Studies, Prof. R. Champakalakshmi, 27.04.1995.
255. Ms. Meenakshi Khanna, "Kashf, Manam and Karama : Aspects of Sufi Experience and Sufi Source of Authority", Centre for Historical Studies, Prof. Muzaffar Alam, 27.04.1995.
256. Ms. Mona Sedwal, "A Study of the Growth and Development of Universities in India, 1857-1887", Zakir Husain Centre for Educational Studies, Prof. S.C. Ghosh (17.06.1994)
257. Ms. Indu Dwivedi, "The Social Context of Education in Colonial India : A Study of Elementary Education in the North Western Province between 1850-1880", Zakir Husain Centre for Educational Studies, Dr. Geetha B. Singh (29.06.1994).
258. Mr. Manoj Kumar Dash, "Economics of Educational Wastages in India", Zakir Husain Centre for Educational Studies, Prof. Tapas Majumdar (22.09.1994)
259. Mr. Debasis Singh, "Equality and Excellence in Medical Education in India", Zakir Husain Centre for Educational Studies, Prof. S.C. Ghosh (16.11.1994)
260. Mr. Syed Mohammad Haider Rizvi, "Coping with Politically Induced Macro Stressors", Zakir Husain Centre for Educational Studies, Prof. Sushila Singhal, 01.01.1995.
261. Ms. Rita Sharma, "Work Motivation of Primary School Teachers and Their Understanding of Minimum Levels of Learning", Zakir Husain Centre for Educational Studies, Prof. Sushila Singhal, 31.01.1995.
262. Mr. Birendra Narain Dubey, "Social Context, Education Policy and Schooling of Tribal Children in Bihar : A Study of the Chotanagpur Region", Zakir Husain Centre for Educational Studies, Dr. Geeta B. Singh, 24.03.1995.
263. Mr. Dipak Kumar Gupta, "Multicultural Education : A Comparative Study of India and Canada", Zakir Husain Centre for Educational Studies, Prof. Karuna Chanana, 27.04.1995.
264. Ms. Menaka Roy, "Language, Ideology and Education : A Critique of Post-Independence Educational Policy with reference to medium of instruction at the primary level", Zakir Husain Centre for Educational Studies, Prof. Karuna Chanana, 27.04.1995.

CENTRE FOR DEVELOPMENT STUDIES, THIRUVANANTHAPURAM

265. Mr. Srijit Mishra, "Exchange Relations in an Agrarian Set Up : Case Study of a Tribal Village from Orissa", Dr. G.M. Rao & Dr. Sakti Prasad Padhi (13.05.1994)
266. Mr. Sudip Kumar Mohapatra, "Performances and Prospects of Rice Production in Orissa", Dr. K.N. Nair & Dr. Chandan Mukherjee (05.07.1994)
267. Ms. Lini R. Nair, "Grain Supply in a Chronically Food Deficit State : The Case of Kerala", Shri D. Narayana & Dr. T.M.T. Isaac (05.07.1994)
268. Mr. G. Murugan, "Pricing Public Utilities - Study of Drinking Water", Dr. K. Pushpangadan (05.07.1994)
269. Mrs. Lelithabhai K.N. "Constraints to Productivity Growth in Kerala Agriculture : A Micro Level Study", Dr. T.M. Thomas & Dr. K.N. Nair (05.07.1994)
270. Mr. Rajeev Sadanandan, "The Role of Government in the Development of the Health Care system in Kerala", Dr. P. Balakrishnan & Dr. I.S. Gulati (05.07.1994)
271. Ms. Shaheena P. "Constraints to Diffusion of Sericulture Technology in Kerala : A Case Study of Palakkad District", Dr. T.M.T. Issac & Dr. G.N. Rao (05.07.1994)
272. Mrs. M. Sarita Varma, "A Lineage System in Transition : Patterns, Processes and Systemic Adjustments - Case Studies for Kshatria Matriliney", Sri P.K.M. Tharakan & Dr. P.M. Pillai (25.10.1994)
273. Mr. J. Dennis Raja Kumar, "Role of Commercial Banks in Financing the Private Corporate Sector in India, 1970-71 to 1989-90", Dr. N. Shanta & Dr. K. Pushpangadan (25.10.1994)
274. Mr. A. Karunakaran, "Performance Differentials of Foreign and Domestic Bank in India", Dr. Sunil Mani & Dr. P.M. Pillai (25.10.1994)
275. Ms. Meena Abraham, "Foreign Portfolio Investments in India (1948-1989)", Dr. Sunil Mani & Dr. K.K. Subrahmanian (25.10.1994)
276. Ms. Asha K. "Competitiveness of India's Agricultural Exports - A Case of Tea Exports", Dr. K. Pushpangadan & Dr. Sunil Mani (25.10.1994)

FACULTY PARTICIPATION

CONFERENCES/SEMINARS/SYMPOSIA/WORKSHOPS

OUTSIDE INDIA

SCHOOL OF ENVIRONMENTAL SCIENCES

1. P.S. Ramakrishnan, (i) Invited Member of the Planning Committee for the conference on "Biodiversity International Forum on: Science and Development - Towards a New Partnership organized by the International Union of Biological Sciences (IUBS), Paris. He was the convener Chairman of the Plenary Session on 'Ecological Functions, Biodiversity and Ecosystem Function: The Human Dimension; 5-9, September, 1994; (ii) Advisory Committee Workshop on "Tropical Forestry". International Institute of Tropical Forestry and World Bank, Washington DC. May, 1994. Sustainable Forestry in the Asian Tropics; (iii) International Forum on 'Biodiversity: Science and Development Towards a New Partnership.' IUBS/UNESCO/ICSU, Paris. September, 1994. Biodiversity and Ecosystem Function: Human Dimension; (iv) Conference on "Asian Rice Culture, and its terraced landscapes, UNESCO World Heritage Centre, Manila, Phillipines 28 March - 4 April, 1995. Traditional rice culture in north east India; (v) Conference on "Potential Impacts of Climate Change on Tropical Forest Ecosystems", World Wildlife Fund (WWF), USA, Puerto Rico, 24-28 April, 1995. Sustainable development, climate change and sustainable development.
2. Syed. I. Hasnain, (i) "International Workshop on climate change in Himalaya and Tibetan region", Kathmandu, Nepal, April 3-7, 1995. "Impact of Monsoonal precipitation on the run off and sediment transfer from Dokriani glacier, Garhwal Himalaya"; (ii) "International Seminar on Snow and Ice Technology", held at Urmia West Azherbijan, Islamic Republic of Iran, Jan 28 - 30 Jan. 1995. "Himalayan glaciers as a sustainable water resource".
3. R. Subramanian, Biological Monitoring of Selenium in Health and Disease at 1st International Conference on Trace Elements, Free Radicals, Tumour Markers, Chromosomal Analysis and Cytokines in Clinical Medicine and Biochemistry, Faculty of Medicine, Kuwait University, Kuwait, 20-23 March 1995.
4. Kasturi Datta, XIth Federation of Asian and Oceanian Biochemists and Molecular Biologists", 15-18 Nov 1994, Bangkok, Thailand, "Multifacet regulation of Hyaluronan receptor in cellular response".

SCHOOL OF LIFE SCIENCES

5. Asis Datta, (i) XXIII Annual Meeting of Brazillian Society of Biochemistry and Molecular Biology, Caxambu, Brazil, May 14-17, 1994; (ii) 11th FAOB Symposium Biopolymers and Bioproducts, structure, Function and Applications, 15-18 Nov. 1994.
6. K.C. Upadhyaya, "4th International Congress of Plant Molecular Biology" June 19-24, 1994, Amsterdam, Netherlands. "Differential expression of phenylamine ammonia lyase transgene in transgenic tobacco".
7. Madhubala R., Gordon Conference on polyamines 11th-16th June 1995. New Hampshire USA. "Effect of Bis(benzyl)polyamine analogs on L-donovani promastigotes.
8. B.C. Tripathy, "American Society of Plant Physiologists". July 31 - August 4, 1994. Portland, Oregon, USA Root-shoot Interaction in the Greening Process.

SCHOOL OF PHYSICAL SCIENCES

9. D. Kumar, "Strongly Correlated Electron Systems and Quantum Phase Transitions", July 4-21, 1994, Trieste, Italy.
10. S.Puri, (i) "Cell Dynamical Modelling of Phase Ordering Dynamics", Workshop on Numerical Modelling of Topological Defects, Cambridge, U.K., October 1994; (ii) "Recent Progress in our Understanding of Phase Ordering Dynamics" Neuton Institute, Cambridge University, Cambridge, U.K., November 1994.

CENTRE FOR BIOTECHNOLOGY

10. H.K. Das, Curriculam workshop at Central Deptt. of Botany, Tribubhan University, Kathmandu, Nepal, May 26-27, 1994. Acted as Chief Expert and delivered lecture on "Biotechnology of Nitrogen Fixation in the context of Agricultural Production".
11. Rakesh Bhatnagar, "International Conference on Emerging Biotechnology and Industrial Opportunities", 6th/7th October 1994, Trieste, Italy.
12. Rajiv Bhat, "3rd International Symposium on Perspectives on Protein Engineering & complementary technologies", Sept. 13 -17, 1994, Oxford UK, "Effect of solvent additives on the thermal stability of insulin".

SCHOOL OF INTERNATIONAL STUDIES

13. Manoj Pant, (CSIDLE) "Trips, Trims & the Uruguay Round India's Threat Perceptions", Interntional Conference, University of Cairo, Egypt, April 17, 1995.

14. K.V. Kesavan, (CEAS) Kyoto Conference on Japanese Studies, October 17-22, 1994, "Japan's Policy towards Southeast Asia since 1952". During his trip to Japan, in October 1995, he presented three seminars at Kyoto University, Reitaku University, Chiba and the Institute of Developing Economics, Tokyo.
15. Baladas Ghoshal, (CSCSEA&SWPS) "9th Asia-Pacific Round "Domestic Politics and Diplomacy: The Case of South Asia, Colombo, August 1994.
16. Ganganath Jha, (CSCSEA&SWPS) "International Conference on Thailand, Kunming, China, May 1995.
17. K. Warikoo, (CSCSEA&SWPS) (i) "International Conference on Sustainable Development of Central Asia", September 12-14, 1994, Ulan Batoor, Mongolia, "Emergence of Central Asia : New Opportunities for Cooperation in the Process of Development"; (ii) "51st Convention of UN Human Rights Commission", Geneva, February 2-28, 1995, "Rights of Ethnic Religious Minorities"; (iii) "Participated in the first ever Indian Central Asia Cultural Expedition; May 17-July 21, 1994, traversing 12,000 kms. by road through Uzbekistan, Kirgystan, Kazakhstan, Xingiang, Tibet, Kansu and Qinghei provinces of China and Nepal. Lectured at Inst. of Dunbuang Studies at Dunhuang (China), Kyrgyz-Slavonii University (Bishkek), Taskhent Academy of Social Sciences, Lhasa during this expedition.
18. Nancy Jetly, (CSCSEA&SWPS) "Regional Workshop on "Shaping South Asia's Future : Role of Regional Cooperation", Kathmandu, May 1994.
19. Devender Kaushik, (CSEES) Visited Moscow to collect material on "Prospects of Development of Democratic Polity in Russia" in May-June 1994; interviewed leaders of various political parties including A.I. Dukianov, former Speaker of the USSR Supreme Soviet, Member Russian Parliament and V. Zhirinovskiy, Leader of the Liberal Democratic Party. Also delivered a lecture on "The current state of Indian Politics - Its Implications for Indo-Russian Relations" at the Institute of Oriental Studies, Moscow.
20. Shashi Kant Jha, (CSEES) (i) Salzberg Seminar, Salzberg, Austria, Session No. 316 on "Religion, Ethnicity and Self-Identity", 2-9 July 1994 and presented paper "Minorities and Ethnic Politics in Eastern Europe: The Case of Hungarians in Rumania"; (ii) Participated in UGC sponsored Indo-Hungarian Round Table Conference on "Experiences of India and Hungary in Reform and Liberalisation of their Economies", 7-8 March 1995. He participated in this Round Table Conference as one of the Organizers on behalf of the Centre for Soviet & East European Studies, SIS, JNU, New Delhi.
21. Gulshan Dietl, (CWAAS) Indo-Egyptian Conference on "The Challenges of Development and Security in a New World: Comparative Egyptian and Indian Perspective, Organised by the Cairo University, Cairo, Egypt, 17-18 April 1995; presented a paper on "Regional Transformation in Central Asia and Its Impact on India".

22. K.R.Singh, (CWAAS) The Challenges of Development and Security in a Changing World: The Egyptian Indian Experience in Perspective, Cairo, Egypt 16-17 April 1995, presented a paper on "Indian Perspective Towards NPT".

23. Girijesh Pant, (CWAAS) Conference on "The Challenges of Development and Security in a Changing World: The Egyptian and Indian Experience in Perspective", "Indian Economic Reforms: Issues in Current Public Debate".

SCHOOL OF LANGUAGES

Centre for African & Asian Languages

24. Azhar, A.W. "International Congress on Iranian Studies" 10-17 March, 1995, Iran (Tehran), "Contribution of India to the Development of Persian Studies"

Centre of French Studies

25. Rita D. Sil, "4th Conference of the International Society for the Study of European Ideas (I.S.S.E.I), 22-27 August 1994, KarlFrenes Universitat, Graz. Austria. Paper read: The European legacy in Indian perspective.

26. S. Ramakrishna, Canadian Translators' Association's Seminar under Learned Societies Meet, 6-8 June 1994, Calgary, Canada.

Centre of German Studies

27. Anil Bhatti, Uebersetzung als Repräsentation, September 28-30, 1994 Gottingen, Japan. "Europäische Erinnerung am Indus, Carl von Huegel als Indienreisender."

28. Rekha V. Rajan, Workshop on the topic "Translation as Representation", September 28-30, 1994 Gottingen, Germany. "Die "Indischen Reisebriefe" Ernst Haeckels."

29. Pramod Talgeri, (i) III International Congress of Intercultural German Studies (Internationaler Kongreß der Gesellschaft der interkulturellen Germanistik) -Duesseldorf-Medienforschung- 19.7.- 22.7.1994. "Interkulturelle Implikationen des Schwunds Kultureller Grenz-und Differenzwahrnehmung: 'Dallas und 'Ramayana im indischen Fernsehen"; (ii) Interdisciplinary Symposium on "Religion und Literature" - Theological Faculty of University of Innsbruck- 14- 18 March 1995. Innsbruck (Austria) - "Transzendenz als Immanenz - Das Bewußtsein der Glückseligkeit im Erlebnis der Gottesliebe in der indischen Bhakti Dichtung."

Centre for Japanese & North-East Asian Language

30. P.A. George, VIII International Seminar on Japanese Studies, "Tonson's Literature at the Turning Point to Modern Times" 6 - 7 September, 1994, Fukuoka, Japan (Fukuoka UNESCO Association).

Centre of Linguistics & English

31. Anvita Abbi, "13th European Conference on South Asian Studies". Aug. 31-Sept. 3, 1994, Toulouse, France. "Grammaticalization of Verb Go in South Asian Languages".
32. Ania Loomba, (i) "Modern Languages Association Meeting", San Diego, Dec. 1994, "Of Queens' Spices - Renaissance Literature & the East India"; (ii) "Modern Languages Association", Dec. 1993, Toronto, "'Shadow Lines, Reading Renaissance Marginalities"; (iii) "Shakespeare Association of America", April 1995, Chicago, "Shakespeare in Between"; (iv) "International Shakespeare Association", Aug. 1994, Stanford, "Shakespeare & Cultural Difference".
33. Franson D. Manjali, "First International Summer Institute in Cognitive Science", SUNY, Buffalo (U.S.). July 4-29, 1994. Paper presented in the Seminar on *Language and Space* (entitled: "Sentence Meaning as Dynamic Gestalts: Karaka Theory and the Semantic Archetypes.').
34. S.K. Sareen, "Textual Comprehension and Cultural Context, Universiti Kebangsaan, Malaysia, Nov. 8 to Nov. 10, 1994.

SCHOOL OF SOCIAL SCIENCES

Centre for Study of Economic Studies and Planning

35. Deepak Nayyar, Symposium on "Implications and Consequences of NAFTA for Asia and the Pacific", 27-29 September 1994, Bangkok, Thailand. Paper presented : "The Economic Implications of NAFTA for South Asia".
36. C.P. Chandrasekhar, (i) Workshop on Bretton Woods Revisited by the Centre of Concern, Washington USA in July 1994. Paper presented: "Critique of and Alternatives to Structural Adjustment"; (ii) ESCAP/UN Workshops on Investment Opportunities and Relocation of Industries held at Manila, Philippines on 17-20 October 1994 and Karachi, Pakistan on 9-12, 1995. Paper presented : "Relocative Investment and Manufacturing Growth in the Asian Region".
37. Prabhat Patnaik, Conference on the Rehabilitation of Demand organised by the University of Sorbonne-Pantheon and SOAS, London, Sept. 1994, at the MSH Paris. Paper presented : "International Mobility of Capital and the Problems of Effective Demand in Underdeveloped Countries".
38. Sunanda Sen, (i) Conference on Rehabilitation of Demand organised by the University of Sorbonne, Pantheon and SOAS, London at the Maison des Sciences de l'Homme at Paris, September 1994. Paper presented : "International Capital Flows and Global Demand"; (ii) Conference on Rethinking Bretton Woods organised by the Centre for

Concern in Washington, June 1994. Paper presented: "Debt, Development and the International Monetary Fund"; (iii) Summer Interantional School of Zagreb University held in IDS, Sussex University, September 1994. Paper presented : "Debt Management Policies".

39. D.N. Rao, 50th Congress of the International Institute of Public Finance held at Harvard Law School, Harvard University, USA during August 22-25, 1994. Paper presented : "Fiscal policy for environmental protection - a cross-sectional analysis of fiscal prescriptions" (with M.C. Purohit).

Centre for Historical Studies

40. Himanshu Prabha Ray, (i) Red Sea. Rome's Trade with the East. Lyon/France; (ii) EFEO. Paris.

41. Muzaffar Alam, (i) Presented paper on Persian Language and Formation of Political Identity in Mughal India at a Seminar "Languages, Empires and Political Identity" at Dept. of South Asia Languages & Civilizations. University of Chicago, USA; (ii) Visiting Professor at Centre for Studies of Non-Western Societies, University of Leiden, Leiden, Holland; (iii) Visiting Professor, Dept. of History, University of Chicago; (iv) "Dindari and Jahandari in the Indo-Muslim Context" presented at a Seminar on "Shaping Indo-Muslim Identity in Pre-Modern India" in Duke University, Durham, N.C., USA; (v) Presented paper on "The Mughal State : Religions, Ideology and Legitimacy" presented at a workshop on "The Concept of State in India Political Thought", Bologna, Italy.

42. Harbans Mukhia, (i) Violence at Politique, Communal Violence and Transmutation of Identities, France Cerissy-la-salk, Paris, Chaired a Session; (ii) Preparation of IDPAD Seminar, the Netherlands. Amsterdam.

Centre for Political Studies

43. Zoya Hasan, (i) Berkshire Conference on Womens History, Uassar College, Ponghkeepsie, New York, June 1993; (ii) South Asia Regional Studies Seminar on Communalism in India, University of Pennsylvania, December, 1993.

Centre of Social Medicine & Community Health

44. Imrana Qadeer, "International Conference on Population and Development", Sept. 4-13th, 1994, Cairo, Workshop on "India's Population in Development".

Centre for the Study of Regional Development

46. Chopra, Kusum, Seminar on "Access to Food - An analysis of Regional Variations in Rural Urban", Institute of Development Studies, University of Sussex, Brighton, Sussex, U.K.

47. Kundu, Amitabh, (i) Symposium on "Impact of NEP on Indian Economy, November 29-30, 1994. The Hague, *New Economic Policy and Urban Poverty in India*; (ii) Symposium on "Poverty Alleviation Efforts in the SAARC Countries", January 21-23, 1995, UNU, Colombo; (iii) International Workshop on "Social Aspects of Development", April 3-5, 1995, RIS, *UN 2000 Coal : Development Priorities for Women & Children in Asia*.

48. Nangia, S., (i) Conference on "Population and Environment", June 30, Cracow, Poland, *Programme for the Future*; (ii) IUSSP Meeting on "Population and Environment in Industrialized Regions", June 27-30, 1994, Warsaw and Cracow, Poland, *Demographic Consequences of Bhopal Disaster*.

49. Premi, M.K., Workshop on "Abortion Infanticide, and Neglect in Population History", October 20-21, 1994, Kyoto, Japan, *Female Infanticide and Child Neglect as Possible Reasons for Low Sex Ratio in the Punjab, 1881-1931*.

50. Raju, S., (i) Commission on "Gender and Geography", August 16-20, 1994, University of Heidelberg, Germany, *Beyond Borders: the Opening up of the South Asian Market and its Impact on Female Labour*; (ii) Commission on "Gender and Geography", August 16-20, 1994, University of Heidelberg, Germany, *North American Case Studies*; (iii) Conference on "Popular Culture", September 1994, University of Amsterdam, Amsterdam, The Netherlands, *The Elite and the Local in Environmental Essentialism*.

Centre for the Study of Social Systems

51. Yogendra Singh, "Ethnicity, Secularism and Social Change", April 14-20, 1995, Cairo, Egypt, "Ethnicity, Unity and Indian Civilization".

52. R.K. Jain, "Civilisations and Settlement Societies : India and Overseas Indians", September 7, 1994, Durban, South Africa.

Zakir Husain Centre for Educational Studies

53. Sushila Singhal, Seventh International Conference on Socio-Economics, April, 7, 1995, Washington, D.C. "Equity and Excellence in Higher Education in India: Public Policy and Reality".

WITHIN INDIA

SCHOOL OF COMPUTER & SYSTEMS SCIENCES

1. K.K. Bharadwaj, "Avenues for Parallelization in Hierarchical Censored Production Rules", *First International workshop on parallel processing*, Bangalore, India, December 25-31, 1994; (ii) "International Conference on Software Engineering Practices", Feb. 9-10, New Delhi.
2. Renu Varshneya, "Avenues for Parallelization in Hierarchical Censored Production Rules", *First International workshop on parallel processing*, Bangalore, India, December 25-31, 1994.
3. S.Bala Sundaram, "International Conference on Software Engineering Practices", Feb. 9-10, 1995, New Delhi.

SCHOOL OF ENVIRONMENTAL SCIENCES

4. B. Padmanabhamurty, (i) "Workshop on Environmental Crisis in Coastal Area of India" Aug.27, 1994. Indian Council for Enviro-Legal Action. New Delhi. "Coastal area development and environmental consequences"; (ii) "Workshop on Environmental Pollution and preservation of Historical Monuments" 31st. Oct. - 1st. Nov. 1994, New Delhi. "Contribution of Mathura Refinery to the Air Quality at Agra & Bharatpur - a meteorological approach"; (iii) "Brainstorming Session on Parameterization of PBL in large scale Models" Sept.15 -16, 1994, New Delhi. "Turbulent Kinetic Energy and Spectrum of Turbulence at Jodhpur during MONTBLEX-1990"; (iv) "Workshop on Air Pollution Dispersion Modelling" Thaper Institute of Engg. & Technology, Oct.27-28, 1994, Patiala. "Prediction of Plume Rise and Plume Shape" and Discussion Co-ordinator for the Session; (v) "Seminar on Urban Environment" Feb.7-10, 1995, Centre for Environmental Studies, School of Planning & Architecture, New Delhi. "Urban Air Pollution Modelling"
5. P.S. Ramakrishnan, (i) Symposium on 'Science and Technology and Sustainable Rural Development, INSA, New Delhi. 5 August, 1994. Issues relevant to sustainable development of degraded rural ecosystems; (ii) Workshop on Science and Technology for Rural Development, Centre for Research on New International Economic Order (CRENIEO). Madras. November, 14-15, 1994. Appropriate technology for sustainable rural development; (iii) Conference on "Sustainable development of degraded lands through agroforestry in Asia and the Pacific. Range Management Society of India, New Delhi 25-30 November 1994; (iv) Discussion meeting "Making Science Education more relevant and Futuristic. CBSE, New Delhi 30 December 1994. Environment and Education; (v) Seminar on "North-east India and the 21st Century". Nagaland Gandhi Ashram, Gauhati, 2-6 January, 1995. Sustainable Landuse in North-Eastern hill region; (vi) Seminar on "Biodiversity - Genes to Ecosystems: Towards Sustainable Management. Indian National Science Academy, New Delhi, 11-12 January, 1995. Biodiversity in Human Impacted

Ecosystems: Ecological and Social Linkages for Sustainable Management; (vii) Soil Biodiversity and Ecosystem Function in Tropical Agricultural Systems. Tropical Soil Biology and Fertility (TSBF), ICRISAT, Hyderabad, 15-22 January, 1995. Soil Biodiversity issues in the traditional agroecosystem context in South Asia; (viii) Conference on "Energy and Environment". International Centre for Theoretical Physics (India ICTP Chapter) New Delhi, 19 February, 1995. Ecology and Sustainable Development. The Issues; (ix) Symposium on "Agriculture and Environment: Issues in Sustainable Agriculture and rural development. National Institute of Ecology, Jhansi, 20-22 February, 1995. What is Sustainability in Agriculture in the Asian Context?; (x) Seminar on "Environment in the Third World. Critical Challenges, Academy of Third World, New Delhi, March 8-9, 1995. Ecology and Sustainable Rural Development in the Asian Tropics; (xi) Seminar on 'Environmental Concerns in South Asia'. SIS, JNU. New Delhi, 10 April, 1995. Environment and Sustainable Development; (xii) Seminar on "Community Forestry: Biodiversity of Forest Species Indian Soc. Tree Scientists. New Delhi, 2-3 May, 1995. Biodiversity - Ecological and Social Linkages.

6. D.K. Banerjee, (i) Conference on Plastics & Environment, FICCI, Delhi, 7-8 Sept. 1994; (ii) Conference on Solid Wastes Action, South & Southeast Asia Network for Env. Education, Bangalore, 19-24 Sept. 1994; (iii) Seminar on Urban Environment, SPA, Delhi, 7-10 Feb. 1995; (iv) 1st Congress of Federation of Indian Physiological Societies, DIPAS, Delhi, 1-3 March 1995; (v) Seminar on Env. in the Third World: Critical Challenges, JMI, Delhi, 8-9 March 1995.

7. A.K. Bhattacharyya, (i) National Seminar on The Root Microbiology of Tropical N-Fixing Trees in Relation to N & P nutrition. T.N. Agri. Univ., Coimbatore, 6-9 December 1994; (ii) 3rd National Conference on Mycorrhizae: Biofertilizers for the Future. TERI, New Delhi, 13-15 March 1995.

8. Brij Gopal, (i) Training Workshop on Wetland Management. WWF India & Ministry of Env. & Forests, Bharatpur, 15-22 Jan. 1995; (ii) National Symposium on Agriculture & Environment. Jhansi, 6-8 March 1995; (iii) National Symposium on Ecology: Current Problems and Varanasi, 10-12 March 1995.

9. J. Behari, The meeting organised by National Academy of Sciences (Allahabad) at Chandigarh, 1-2 October 1994.

10. Kasturi Datta, (i) XVI International Congress of Biochemistry and Molecular Biology, New Delhi, 15-19 September 1994; (ii) XVI International Cancer Congress, New Delhi, October 30 - November 5, 1994.

11. J.D. Sharma, (i) Chemoprevention of 7,12 Dimethylbenzene(a) anthracene (DMBA) Induced Papillomagenesis in the skin of Swiss Albino mice. 40th Annual Conference of Association of Physiologists and Pharmacologists of India, Kolar. 24-26 Nov 1994; (ii) The Ecoprotection and medicinal importance of commiphora wightii with prospects of sand dune stabilization, by the people of Rajasthan. 1st Int. Conf. Life Style and Health, AIIMS, New Delhi, 20-21 Jan. 1995; (iii) Medico Problems of Migrant workers and the Host Population.

Int. Conf. on Occupational Environmental Medicine, Bombay Hospital, Bombay, 20-22 January 1995.

SCHOOL OF LIFE SCIENCES

12. M.A. Askar and N.Z. Baquer, Conference on "Regulation of NAADH-oxidase in neural and extraneural preparations during diabetes", Presented at the second APSN meeting at Hyderabad 14-15 Sept. 1994.

13. N.Z. Baquer, G. Gupta, M. Azam and M.A. Ansari, Conference on "Role of polyamines on rat brain insulin receptor binding and kinaase activity during diabetes" Presented at a meeting held in Lucknow on Advances in Neurotransmitter Receptors : Cellular and Molecular Mechanisms of Action of Chemicals 25-26 Oct., 1994.

14. G.S. Singhal. "The International Symposium on Plant Molecular Biology and Biotechnology", New Delhi 14-17 December 1994.

15. Asis Datta, (i) 16th International Congress of Biochem. & Mjol. Biol., New Delhi, Sept. 19-22, 1994; (ii) Invited lecture, Cancer Research Institute, Bombay, June 1994; (iii) Nityanand Oration INSA Award lecture, Delhi University, Delhi, July, 1994; (iv) Sectional President 64th Annual Session of the National Academy of Sciences at PGI, Chandigarh, Sept 29 - Oct., 1, 1994; (v) Institute Foundation Day Sanjay Gandhi PGI of Medical Sciences, Lucknow, Dec. 14, 1994; (vi) Platinum Jubilee Lecture in the Section of Biochemistry, Biophysics and Molecular Biology, Indian Science Congress Association, Calcutta, Jan. 5, 1995; (vii) XVII All India Cell Biology Conference and Symposium, Feb. 11-13, 1995.

16. Sipra Guha Mukherjee, (i) Conference on "Cloning of threonine hydrataase in Int. Conf. of Biochemistry", New Delhi, September 1994; (ii) Conference on "Plant Molecular Biology", New Delhi, December 1994.

17. Prasanna Mohanty, (i) "Biochemistry Biophysics Section, Symposium on Radiation Photochemistry (Chairman Dr. J.P. Mittal), Symposium speaker, Indian Science Congress, Jadavpur University, Jan. 3-5, 1995; (ii) "16th International Biochemistry and Mol. Biol. Congress", IUBM, September 19-22, 1994, New Delhi-110001, India.

18. M. Habibulla, (i) International Conference on Neurobiology - from Recepto Effectors Cochin, India, May 15-18, 1994; (ii) First Congress of Federation of Indian Physiological Societies, March 1-4, 1995.

19. A.R. Rao, International Cancer Congress, New Delhi, Nov. 30 - Oct. 5, 1995.

20. Singh, R., (i) Conference on "International Symposium on Gerontology and VII Conference of the Association of Gerontology (India)" New Delhi, November 14-16, 1994. Title of the paper presented : "Ascorbic acid and X-tocopherol in the ageing rat brain hippocampus and the effect of aminoguanidine"; (ii) "Conference on "Second meeting of the

Asian Pacific Society for Neurochemistry", Hyderabad, September 14-16, 1994. Title of the paper presented : "Age-related accumulation of oxidized and glycosylated proteins in the rat brain and the effect of chlorpromazine".

21. Sopory, S.K., (i) Conference on "16th Int. Cong. of Biochem. and Mol. Biol.", New Delhi 19-22 Sept., 1994; (ii) Symposium on Cellular Calcium Homeostasis, Calcutta, Sept. 16-17, 1994.

22. R. Prasad, "Micon International November, 1994 "Multidrug resistance genes of *Candida albicans*".

23. Goyle Shobha, (i) Neurology update 2000- 1st International Conference on Organisation and delivery of neurological services, New Delhi, India, November 19-22, 1994; (ii) As in 3 Molecular analysis of dystrophin gene in Indian DMD/BMD patients by PCR; (iii) XVIII All India Cell Biology Conference and Symposia, Lucknow Feb. 13-15, 1995. Exploring the molecular basis for variability among patients with DMD.

24. Shobha Goyle, XVIII All India Cell Biology Conference and symposia, Lucknow, Feb., 13-15, 1995. Status of dystrophin gene in muscular dystrophy patients.

25. K.C. Upadhyaya, (i) "16th International Congress of Biochemistry and Molecular Biology, Sept. 19-22, 1994, New Delhi : Differential expression of PAAL promoter in transgenic tobacco; (ii) "International symposium on Plant Molecular Biology and Biotechnology Dec. 14-17, 1994, New Delhi. Structure and sequence of the *Arabidopsis thaliana* calmodulin gene; (iii) "Symposium on chromosomal and molecular Basis of Genetic Analysis Jan. 13-15, 1995, Varanasi, Silencing and differential expression of a transgene; (iv) "Global Conference on Advances in Research Plant Diseases and their Management" Feb. 12-17, 1995, Udaipur. Expression of the *Arabidopsis* phenylalanine ammonia lyase in transgenic tobacco.

26. R.K. Saxena, XXI Annual meeting of the Indian Immunology Society, 14-16 Sept., 1994, "Mechanism of interferon induced LAK resistance in tumor cells : Role of Class I MHC antigen levels on tumor cells".

27. Alok Bhattacharya, "Genome analysis of *Entamoeba histolytica*" Annual meeting of the Indian Society of Cell Biology, February, 1995.

28. R.N.K. Bamezai, (i) XX Annual Conference of Indian Society of Human Genetics", and seminar on Genetic Epidemiology, Hyderabad, Dec. 11-14, 1994; (ii) XX Annual Conference of Environmental Mutagen Society of India and National Symposium on Newer Perspectives in Environmental Mutagenesis and Carcinogenesis, Hissar, 1995.

29. R.K. Kale, "II Meeting on Role of Radioprotection", INMAS, New Delhi, 2-3 May, 1995.

30. R. Mukhopadhyaya and R. Madhubala, "Effect of antioxidants on the growth and polyamine levels of *L. donovani*". Poster presentation on 16th International Congress of biochemistry and Molecular Biology, New Delhi, India, 19-22 Sept. 1994.
31. Madhubala, R., (i) "Effect of bisbenzyl polyamine analogs and DL-x DFMO on parasite suppression and infection. Indo-US workshop (under the auspices of Indo-US Vaccine Action Programme at CDRI, Lucknow from 6-8 Dec. 1994; (ii) XII National Congress of Parasitology at Goa from 23-25, Jan., 1995.
32. B.N. Mallick, "Second Asia Pacific Society for Neurochemistry Meeting, Hyderabad, Sept. 14-16, 1994. Delivered a talk in the symposium on "Molecular Mechanism of Neurological Disorders". "Possible Cellular mechanism for REM sleep loss induced changes in brain functions".
33. Shiva Prakash, N. and Neera Bhalla Sarin, Challenges of Regeneration and Transformation of pigeon pea (*Cajanus cajan*), 16th Int. Congress of Biochemistry and Mol. Biol., New Delhi 19-22 Sept., 1994.
34. Sharma, R. and Neera Bhalla Sarin, Purification, characterization and development regulation of DAHP synthase and chorismate mutase from *Brassica juncea*. 16th Int. Congress of Biochemistry and Mol. Biology, New Delhi, 19-22 Sept., 1994.
35. Shiva Prakash, N. and Neera Bhalla Sarin, Fundamental and Applied aspects of regeneration and transformation of Pigeon pea (*Cajanus cajan*). Int. Symp. on Plant Mol. Biol. and Biotech. New Delhi. 14-17 Dec. 1994.
36. B.C. Tripathy, "International Congress in Biochemistry and Molecular Biology, New Delhi, India October 16-21, 1994. Photosynthetic Response of Wheat Plant Grown in Space.
37. P.C. Rath, (i) "Conference on Biochemistry and Molecular Biology". Int. XVI, IUBMB, New Delhi, 19-22 Sept. 1994; (ii) "Conference on International Congress on Molecular Biology of Development and Aging" Bhubaneswar, 24-26 September 1994.

SCHOOL OF PHYSICAL SCIENCES

38. S.Dattagupta, (i) Seminar on "Dynamics of Quantum Spin Glasses", Tata Institute of Fundamental Research, Bombay, 26th July, 1994; (ii) Seminar on "Quantum Diffusion of Hydrogen", in a workshop at the Nuclear Science Centre, New Delhi on "Hydrogen in Materials", 30th August, 1994; (iii) Lecture on "1994 Nobel Prize in Physics", I.I.T., New Delhi, 11th November, 1994; (iv) Seminar on "Quantum Dynamics of Two-level Systems", Poona University, 22nd November, 1994.
39. R.Ghosh, (i) Discussion Meeting on "Laser Spectroscopy & Applications", IIT, New Delhi, Jan. 21-22, 1995, "Laser Laboratories at JNU"; (ii) Workshop on Advanced

Laser Spectroscopy, Feb. 25- 28, 1995, IIT, Kanpur, "Quantum Optics with Nonlinear-Mixing Signals" (invited papers).

40. R. Ghosh with A.Venugopalan(SPS), Workshop on Advanced Laser Spectroscopy, Feb. 25-28, 1995, IIT, Kanpur, "Decoherence & the Quantum Zero Effect".

41. R. Ghosh with A.Agarwal(SPS), Workshop on Advanced Laser Spectroscopy, Feb. 25-28, 1995, IIT, Kanpur, "Numerical Study of Four-wave Mixing Signals".

42. A. Pandey, "Brownian Motion Model of Discrete Spectra in workshop on Quantum Many-Body Physics", Bangalore, Dec. 1994 - Jan. 1995 (Organisers : H.R.Krishnamurthy et al.)

43. R.Ramaswamy, (i) Diamond Jubilee Meeting of the Indian Academy of Sciences, Bangalore, December 1994; (ii) Theoretical Chemistry Conference", Pune, December 1994; (iii) "Clusters and Nonstructured Materials", Puri, 29th December, 1994 - 5th January, 1995.

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44. Kunal B. Roy, (i) 6th International Congress of Biochemistry and Molecular Biology, New Delhi, Sept. 18-22, 1994; (ii) National Symposium on Cellular and Molecular Biophysics, Hyderabad January 11-13, 1995 "d- AGATCTAGATCT forms triplex in presence of pentapeptide REWER : A model of Rec A mediated triplex".

45. H.K. Das, (i) 16th International Congress of Biochemistry and Molecular Biology, New Delhi, September 18 - 22, 1994. Acted as Convenor and Chairperson of the Symposium on Plant Microbe Interaction/Nitrogen Fixation. "Regulation of the expression of nitrogen fixation genes in *Klebsiella pneumoniae* and *Azotobacter vinelandii*"; (ii) Guha Research Conference, 1994, Mandapam, Tamil Nadu, Dec. 28, 1994 to January 1, 1995, "Regulation of Nitrogen fixation"; (iii) XVIII All India Cell Biology Conference and Symposia, NBRI, Lucknow, Feb. 13 - Feb. 15, 1995, Lucknow. "The chromosome of *Azotobacter vinelandii*".

46. Rakesh Bhatnagar, (i) Conference on "Emerging Frontiers in Biotechnology : Manpower Implications", New Delhi, 23rd March 1995; (ii) "International seminar on commercial Biotechnology", New Delhi, 27th March 1995; (iii) "International Congress on Biochemistry and Molecular Biology, New Delhi, September 19-22, 1994.

47. S.K. Kar, (i) "16th International Congress on Biochemistry and Molecular Biology, New Delhi, September 19-22, 1994; (ii) "Molecular Immunology Forum - III Brainstorming sessions on Molecular Immunology, 9-11th December 1994, Regional Medical Research Centre, Bhubaneswar.

48. Rajiv Bhat, 16th International Congress of Biochemistry and Molecular Biology, New Delhi, September 19- 22, 1994.

49. Uttam Pati, "16th International Congress on Biochemistry and Molecular Biology, New Delhi, September 19-22, 1994. "Transcriptional Control mechanism of Apo(a) Gene".

SCHOOL OF INTERNATIONAL STUDIES

50. R.C. Sharma, (CIPOD), (i) International Conference of Mongolists, Feb. 1995. Key Note presentation. (ii) U.N. Conflict and Cyprus Issue, March 1995. Key Note presentation.
51. Alka Acharya, (CEAS) "Conference organised by the International Conference of Mongolists, February 20-24, 1995. Presented a paper on Chinese Perspectives on Mongolia.
52. K.V. Kesavan, (CEAS) (i) Chaired a session on "East Asia : Japan", The Indian Congress of Asian and Pacific Studies held in January 1994, at JNU; (ii) Presented a paper on "Japan's investment interest in India and Southeast Asia" at the seminar on "India-Southeast Asia : Economic Partnership in 1990s, and Future prospects", held on 28-29 March 1995 at the Academy of the Third World Studies, Jamia Millia, New Delhi.
53. Sumitra Chishti, (CIPOD) (i) Impediments to Foreign Direct Investment in India. Indian Institute of Foreign Trade, New Delhi 29 July, 1994; (ii) International Seminar "SAARC and 2000", March 1995; (iii) International Seminar, "Indian-Hungary, Liberalization Experience", March 1995.
54. Lalima Varma, (CEAS) (i) Conference on "Asia-Pacific Region", JNU, New Delhi, 27-29 January 1995. Title of paper presented, "Japan and the Asia-Pacific Region"; (ii) "Japan's Search for a Global Role and UN", in the Hridayanath Kunzru Memorial Lectures, SIS, JNU, 24th Feb.-4th April, 1995.
55. Baladas Ghoshal, (CSCSEA&SWPS) "Recent Trends in Theories of International Relations", Hyderabad, 7-9 August 1995.
56. B.D. Arora, (CSCSEA&SWPS) (i) Two-day seminar on "South-East Asia : Indian Perspectives", India International Centre, New Delhi, Feb. 14-15, 1994; (ii) Two-day seminar on "Polity, Economy and Society of Bangladesh", SIS, JNU, March 7-8, 1994; (iii) Two-day National Seminar on "Regional Conflicts in the Post-Cold war period, with emphasis on Kashmir, Afghanistan and Cambodia"; paper presented on "Developments in Cambodia".
57. Dawa Norbu, (CSCSEA&SWPS) (i) "Confucian Ideocracy and Barbarian Empire-Building: The Mongol Case", International Conference of Mongolists", New Delhi, 20-24, Feb. 1995; (ii) "Religion and Politics in India and Southeast Asia", Uttar Pradesh History Congress, Ghaziabad, April 1994.
58. I.N. Mukherjee, (CSCSEA&SWPS) (i) International Seminar on "SAARC-2000 and Beyond" : A Blueprint for SAARC : Policy and Programme for improving the Quality of Life in South Asia", New Delhi, March 22-24, 1995; (ii) Seminar : "India-Southeast Asia :

Economic Partnership in the 1990s and Future Prospects : "India-ASEAN Trade Relations", New Delhi, 28-29 March 1995; (ii) Seminar on "Society, Economy and Polity in Sri Lanka"; Paper on "Liberalisation of Sri Lankan Economy: Reflections on Growth, Equality and Macroeconomic Stability, Jaipur, 28-30 November, 1994.

59. Nancy Jetly, (CSCSEA&SWPS) (i) Conference on "Status and Treatment of Refugees" organised by Asian-African Legal Consultative Committee, New Delhi, 23rd September, 1994; (ii) "Society, Economy and Polity in Sri Lanka" organised by South Asia Studies Centre, University of Rajasthan, 28-30 November 1994; Presented paper on "India and Sri Lanka: Some Perspectives"; (iii) Indo-French Dialogue, sponsored by Nehru Memorial Museum and Library and Maison Des Sciences De Le Home, 13-15 Feb. 1995; (iv) Presented paper on SAARC at seminar organized by Deptt of Pol. Science, Delhi University, and delivered the valedictory address, 22 Feb. 1995; (v) Attended workshop on South Asian Regional Cooperation, organised by Indian Council for South Asian Cooperation, New Delhi, 14 Feb. 1995; (vi) Presented a paper on "India and Nepal" at a seminar on "India and Nepal : Aspects of Interdependent Relationship" South Asian Studies Centre, Jaipur, 27-29 March, 1995; (vii) Research paper on "Peace and Development in South Asia" at the seminar on "SAARC-2000 and Beyond", organised by JNU, IIC and KAF, 22-24 March, 1995; (viii) Participated in India-Sri Lanka Dialogue organised by Rajiv Gandhi Institute for Contemporary Studies, New Delhi, 27-28 April, 1995.

60. Zafar Imam, (CSEES) (i) Seminar on "Central Asia in Transition", Centre of Central Asian Studies, University of Kashmir, 28-30, November 1994; (ii) Seminar on "India and the Islamic World", Centre for Peace Research, India International Centre, New Delhi, December 27, 1994.

61. Devender Kaushik, (CSEES) (i) Delivered a lecture on "Collapse of Soviet Union : Transition in East Europe", Ministry of External Affairs at Foreign Service Institute 5th Professional Course for Foreign Diplomats on 17th October, 1994; (ii) Presented a paper at the Indo-German Seminar on Central Asia in the Centre for Soviet and East European Studies, SIS, JNU, 22-23 March 1995 on "Zhirinovskys Geopolitical Approach to Central Asia-A Critique"; (iii) Presented a paper "Challenges of a Unipolar World in the Post-Cold War Period- The Indian Response", at a National Seminar sponsored by Former Union Minister K.R. Ganesh in Institute for Development Studies, Indraprastha Estate, New Delhi, March 1995; (iv) Presented a paper jointly with Prof. R.R. Sharma at the "Indo-Russian Seminar on Indo-Russian Relations - The Changed Context", at the India International Centre, New Delhi, Jan. 1995.

62. Shams-ud-Din, (CSEES) (i) "The First Annual Conference of the Indian Congress of Asian and Pacific Studies", New Delhi, 27-29 January, 1995; (ii) Conference on "Geopolitics of Peace and Conflict Management : The Middle East Peace Process", New Delhi (Organised by CIPOD/SIS/JNU), 2nd March, 1995; (iii) Seminar on "Indo-Iranian Relations in the Nineties"; paper presented : "Central Asia as a Factor in Indo-Iran Relations", Gulf Studies Programme, CWAAS, SIS, JNU, New Delhi, 1994; (iv) "Central Asia in the Changing World Order : Trends and Development" organised by the CSEES/SIS, JNU, March 1995; (v) "India and the Newly independent Central Asian

Republics" in the Seminar organised by Centre for Peace Studies on India and the Islamic World", New Delhi, Dec. 1994.

63. R.R. Sharma, (CSEES) (i) Indo-Hungarian Round Table Conference on "Experiences of India and Hungary : Reforms & Liberalisation" held in JNU/SIS on 7-8 March, 1995. (Presented a paper entitled "Parameters of Post-Communism in Hungary"; (ii) Indo-German Seminar on Central Asia in the Changing World Order' held in JNU/SIS on 23-24 March, 1995; - Presented a paper entitled "Russia and Central Asia"; (iii) National Seminar on "Agenda for Renewal of India" held on 15-16 April, 1995, at Institute for Studies in Industrial Development, New Delhi; (iv) Presented a paper jointly with Prof. D. Kaushik on "Indo Russian Relations : The Changed Context" at India International Centre, New Delhi, January 1995.

64. Manoj Pant, (CSIDLE), "India's Trade Policies : An Analytical Approach", Indo-Hungarian Seminars, SIS, JNU, March 1995,

65. V.S. Mani, (i) (CSIDLE) "Conference on the Draft Code on International Criminal Court", Asian African Legal Consultative Committee, New Delhi, 12th February, 1995; (ii) "3rd Agro-Asian International Law Root Court Competition, National Law School of India University, Bangalore, 15-16, June, 1995.

66. A.H.H. Abidi, (CWAAS), (i) "Seminar on "Iraq in the Nineties", GSP/CWAAS/SIS, New Delhi, 8 November, 1994, Presided over 1st session; (ii) Seminar on "Crisis in the Persian Gulf", IDSA, new Delhi, 4 November 1994, Discussant; (iii) Seminar on "West Asia: Four Years after the Gulf War", Society for Indian Ocean Studies, New Delhi, 18 February 1995, Paper presented on "Iran in the Post-Gulf Crisis Scenario"; (iv) Seminar on "Central Asia in the Changing World Order: Trends & Developments, CSEES, SIS, Nee Delhi, 22-23 March 1995, Paper presented on "Iran and Central Asia: Interests & Approaches"; (v) Seminar on "Tradition & Modernity: Society, Culture and Languages in the Maghreb Region", SL/SIS, JNU, New Delhi, 17-18 April 1995, Presided over the VI Session.

67. Gulshan Dietl, (CWAAS), (i) Seminar on "Crisis in the Persian Gulf", Institute for Defence Studies and Analysis, New Delhi, 4 November 1994, Presented a paper on "Crisis in the Persian Gulf: The Regional Context"; (ii) Seminar on "Iraq in the Nineties", organised by the Gulf Studies Programme (GSP), CWAAS/SIS/JNU, 8 November 1994, Introduced the theme and presented a paper on "Iraq: The Role in the Region"; (iii) Seminar on "Tunisia Today" at the Centre for French Studies, School of Languages, JNU, 9 November 1994, Co-chaired a Round-Table; (iv) Seminar on "US, Latin America and South Asia", organised by the Goa University, Goa, 20-21 December 1994, Presented a paper on "Containment Revisited: A Critique".

68. Anirudha Gupta, (CWAAS), (i) All India Seminar on "Conflict Situation in Africa", Bombay University, 16-17 December 1994, delivered Valedictory Address; (ii) International Seminar on "Latin America, USA and South Asia", Goa University, 19-21 December 1994, delivered Valedictory Address; (iii) International Conference on Indian Diaspora, UGC,

Hyderabad University & Rajiv Gandhi Foundation, Hyderabad, 1-2 November 1994, presented paper on Indo-Nepal Colloquium on India-Nepal Relations, JNU, 27-29 September 1994, presented paper.

69. Vijay Gupta, (CWAAS), (i) Symposium on "New Africa: Economic Future of the South African People", India International Centre, New Delhi, May 21, 1994; (ii) "Regional Conflicts in the Post-Cold War Period, India International Centre, New Delhi, May 28-29, 1994; (iii) "Post Apartheid South Africa Scene: Victory of the Anti-Apartheid Forces of the World", Constitution Club, New Delhi, June 11, 1994; (iv) "Human Rights and Terrorism: Human Rights Violations in Africa", Parliament House Annexe, Institute of Non-Aligned Studies, July 21-22, 1994; (v) "Africa in 21st Century - A Futuristic Exercise, African Ideologies - a Rassessment", Sukhadia University, Udaipur.

70. P.C. Jain (CWAAS) (i) International Conference on the "Indian Diaspora", Hyderabad, 1-2 November 1994, paper presented: "Gulf Migration and its Impact on India"; (ii) Seminar on "Tradition and Modernity: Society, Culture and Language in the Maghreb Region", SL/SIS, JNU, New Delhi, 17-18 April, 1995, paper presented: "Population and Development in North Africa: A Comparative Analysis".

71. A.K.Mohapatra, (CWAAS), (i) Seminar on "Iraq in the Nineties", Gulf Studies Programme, CWAAS/SIS, JNU, New Delhi 8 November, 1994; (ii) Seminar on "Recent Crisis in the Persian Gulf", IDSA, New Delhi, 4 November, 1994.

72. A.K.Pasha, (CWAAS), (i) Conference on "Contemporary India: The Role of Muslim Social Scientists", 11-12 June 1994, Bangalore, Karnataka; (ii) Seminar on "Recent Crisis in the Persian Gulf", 4.11.94, IDSA, New Delhi, paper presented: "Indo-Iraqi Relations: India's Options"; (iii) Seminar on "Iraq in the Nineties", Gulf Studies Programme, CWAAS/SIS, JNU 8 November 1994, title of paper presented, "Iraq: Foreign Intervention and Regime Survival"; (iv) Seminar on "India and the Islamic World" organised by Centre for Peace Studies, IIC, New Delhi, 27.12.1994, title of paper: "India and the GCC"; (v) Seminar on "The Cairo Peace Conference", CWAAS/SIS, JNU, New Delhi, 24.2.1995; (vi) Seminar on Tradition and Modernity: Society, Culture and Language in the Maghreb Region, SL & SIS, JNU, 17-18 April 1995, paper presented on "Indo-Moroccan Relations since the 1970's"; (vii) "Conference on Human Rights: A view from Geneva" organised by Himalayan Research and Cultural Foundation, New Delhi at IIC, New Delhi, 2 May 1995, title of paper: "The Kurdish Issue in the Post-War Gulf".

73. Girijesh Pant, (CWAAS), (i) 15th Annual Meeting on Middle Eastern Economic Association, Washington, D.C., January 6-8, 1995, paper submitted and accepted for publication. Title of paper, "Transition-to Market in the Arab Gulf Countries: A Study of Political Economy; (ii) Seminar on "Iraq in the Nineties, Challenges and Prospects" held on 8.11.94, Gulf Studies Programme, CWAAS/SIS, JNU, paper presented on "Iraqi efforts at re-construction: Attempts to overcome the constraints"; (iii) Seminar on "Iraq in the Nineties, Challenges and Prospects" held on 8.11.94, GSP/CWAAS/SIS, JNU, paper presented "The Question of Oil and Foreign Investment", published in the semina report titled: "Iraq in the Nineties Challenges and Prospects" edited by Dr.E.O.U. Moma.

74. K.R.Singh, (CWAAS) (i) Seminar on "Iraq in the Nineties, Challenges and Prospects", Gulf Studies Programme, SIS/JNU, 8 November 1994, paper presented on "Political Development in Iraq" and "Indo-Iraqi Ties"; (ii) Seminar on "Indian and Iranian Perceptions: Emerging Global Issues", organised by Centre for UN Studies, IIC, New Delhi, 18 January 1995.

SCHOOL OF LANGUAGES

75. S.Ramakrishna, (CFS) (i) Regional seminar on literary translation, CFS, New Delhi, 7-9 Sept.1994; (ii) Regional seminar of Interpretation, 30 November to 2nd December 1994, CFS, New Delhi; (iii) Regional seminar of Commercial translation, CFS, New Delhi, 8-10 December 1994. INSDOC, New Delhi, 30.9.94; (iv) "Translation Theory and Practice: Mutual implications"; (v) "29th Congress of the Indian Association of Teachers of French", 17-19th November 1994.Pune "Etudes francaises au seuil de l'an 2000: Organiser autrement l' enseignement - l'apprentissage; (vi) IBID, participated and intervened in the Round Table on "The review of the role of French in interdisciplinary fields, given the new order".
76. N. Kamala, (CFS) 29th National Congress of Indian Association of Teachers of French, Pune, 17-19 Nov.94.
77. R. Borges, (CFS) Participated and presented a paper on Francois Rabelais at Goa University, November 1994.
78. Rekha V. Ranjan, (CGS) Seminar on the German writer Ernst Augustin. Organised by the Max Mueller Bhavan, Madras. December 29 to 31, 1994. "Lesarten des Romans 'Der amerikanisch Traum'."
79. Pramod Talgeri, (CGS) (i) Panel Discussion on "Culture and Politic An Uneasy Encounter" - JNU Students' Forum - New Delhi 28.9.94; (ii) International Translation Day - INSDOC - New Delhi 30.9.94:Chairperson - "Translation in Theory and Practice"; (iii) Panel Discussion on "German Elections 1994: Prognosis" - Indo-German Society - New Delhi 16.10.94; (iv) Seminar on "German Elections and after" - SIS and Centre of German Studies, JNU- "Germany: A belated Nation' - The Crisis of its Identity"; (v) Aspects of Literary Translation - Sahitya Academy - 8.12.94: Interculturality of Literary Translation"; (vi) 10th General Assembly of International Association of Universities, - Secretary-General of National Organizing Committee, JNU, New Delhi 6-9 February, 1995.
80. Rajendra Dengle, (CGS) (i) An Interdisciplinary Symposium On: Central Jewish Emigration to INDIA 1993-1994, SL,JNU, 15-16 March 1995; (ii) International seminar on: "20th Century European Drama" , Vishwa Bharati, Santiniketan, West Bengal. *Title of Paper:* "Playwriting of Odon von Horvath".(An Attempt at Contextualizing Horvath). 25-29 November, 1994.

81. Manager Pandey, (CIL) (i) "Dalit Sahitya" National Conference of P.W.A. New Delhi, 11-13 November, 1994; (ii) Seminar on "Contemporary Hindi Poetry" Nagari Pracharini Sabha, Arya (Bihar,) April 15-16, 1995; (iii) A workshop on "Hindi short story, Haryana Sahitya Academy Chandigarh May 1-3, 1995.
82. S.M. Abbas Sharib, (CIL) (i) "Progressive movement and Urdu criticism" All India P.W.A. Seminar, New Delhi 28 May 1994; (ii) National open school seminar New Delhi 30-31 August 1994; (iii) All India University Urdu Teachers conference New Delhi 3-5 Oct.1994; (iv) XI National Federation of P.W.A. Conference, New Delhi 25-27 Decembere, 1995; (v) 'Akbar Allahabadi ki shaeri ke moharrikat' All India Seminar on Akbar Allahabadi Allahabad University Allahabad 6-8 March, 1995; (vi) 'Urdu drama-Mazi, Hal Aur mustaqbil' Urdu drama seminar Jammu University Jammu 19-21 March 1995.
83. Rajendra Tomar, (CJNEAL) (i) "All India Seminar on the Teaching of Japanese in India: Problems & Perspectives", CIEFL, Hyderabad, 26-28 Decem ber 1994. Also chaired the session on "Curriculum, Course and evaluation"; (ii) "First Conference of the Indian congress of Asian and Pacific Studies (ICAPS)", JNU, New Delhi 27-29 Jan.95.
84. Prem Motwani, (CJNEAL) "Workshop on Japanese Language Teaching in India", CIEFL, Hyderabad, 26-28 December 1994. Paper Read: "Preparation of-Teaching Materials for Indian Learners of Japanese".
85. Anita Khanna, (CJNEAL) "First Conference of the Indian Congress of Asian and Pacific Studies (ICAPS)", JNU, New Delhi, 27-29 Jan.95.
86. Manjushree Chauhan, (CJNEAL) (i) "Indo-Japanese Foundation Seminar on Japan", New Delhi, 10th November 1994; (ii) "First Conference of the Indian Congress of Asian and Pacific Studies (ICAPS)", JNU, New Delhi, 27-29 Jan.95.
87. Satya Bhushan Verma, (CJNEAL) (i) International Translatin Day Seminar; (INSDOC, New Delhi; 30 September,1994 Delivered introductory Speech as President ISTA; (ii) All India Seminar on The Teaching of Japanese in India: Problems and Perspectives, CIEFL, Hyderabad; 26-28 December, 1994. Delivered Valedictory address; (iii) Indo-Korean Seminar, Gwalior; 14 January, 1995; (iv) Indian Congress of Asian and Pacific Studies, J.N.U. 27-29 January, 1995, Organising Secretary.
88. Franson Manjali, (CLE) "XIth Congress of the International Society for Folk Narrative Research", Mysore, January 1995. Paper presented: "Proppian Folkloristics: From Morphology to Morphogenesis."
89. G.J.V. Prasad, (CLE) (i) "Interrogating Post-Colonialism: Theory, Text and Context", IIAS & IACLALS, Shimla, October 1994, Paper: "The Language of Indian English Fiction"; (ii) "Teaching New Literatures", IACLALS & Dhvanyaloka, Mysore, 26-28 Jan. 1995, Paper: Siting Indian English Literature.

90. Harish Narang, (CLE) (i) Symposium on "Dalit Literature and Feminist Trends in India, Kurukshetra, April 17-19, 1995, "An Indian Feminist with a small 'f': Family and Female sexuality in the writings of Krishna Sobti; (ii) Seminar on "African Literatures: Remembrances and Constructions, Jadavpur, 23-25 March, 1995, "Gicandi Player, Reveal All That is Hidden: *Devil on the Cross* As a Political Novel."
91. Kapil Kapoor, (CLE) (i) "The National Seminar on Indian Semiotic Traditions", Bombay, March 1994. Paper presented: "Panini's Metalanguage as a System of Signification"; (ii) Seminar on "Contemporary English Literature", Rohtak, Dec. 4, 1994, "What Ails Alice and Why is Martin Aggrieved? The Female Protagonist in Contemporary British Fictions; (iii) Seminar on "Bhartrhari and Wiltgenstein" New Delhi, Dec. 12-14, 1994, "Sabdartha, Padartha, Bodhartha, Bhartr hari's Philosophy of Language"; (iv) "3rd International Conference of Panjabi Language and Literature," Patiala, Dec.27-31, 1994, "Inner Structure, External Form and Panjabi Sentences"; (v) "Seminar-cum-workshop on Reorganising Shastras", Sagar (M.P.), Jan. 11-14, 1994, "Reconstituting Astadhyayi as Data Base".
92. Meenakshi Mukerjee, (CLE) (i) Conference on "Interrogating Postcolonialism", Shimla, October 3-5, 1994, Presented a paper entitled "Interrogating Post-colonialism"; (ii) Annual Conference of IACLALS (Indian Association of Commonwealth Language and Literature Studies). Presented a paper entitled: "The Caribbean and Us", January 22-24, 1995.
93. S.K. Sareen, Chaired a session at ACLALAS Conference on Caribbean Literature at Dhvanyaloka, Mysore, 26-28 January, 1995.
94. K.P.S. Unny, (CRS) (i) 'Socio-political Conflicts in Russian Literature from 1920-1960' Title of paper: 'Sotsialno i politicheskii mo tivirovanniye neologizmy Sovetskogo perioda'. Deptt.of Russian University of Kerala, Thiruvananthapuram, March 9-10, 1995; (ii) 'Role of Scientific Study of Indian Languages in National Integration.. Title: 'Dr. Gundert's Contribution to Malayalam Language and Literature' Kerala House, New Delhi, June 8, 1994.
95. S.P. Ganguly, (CSS) (i) III International Conference on Hispanism and Ibero-American Studies, February 1995, New Delhi; (ii) International Seminar on Fernando Pessoa, JNU, April 1995.
96. Anil Dhillon, (CSS) "International Conference on Hispanic Studies, CSS, New Delhi, February 21-23, 1995.
97. Madan Lal, (CSS) Conference on "Issues Related to Translation of Literary Works" and presented a paper entitled "Translating Italian Author Talucchi's Works into Hindi" on 7th December 1994, Organized by the Sahitya Academy, New Delhi.
98. Suman Gupta, Group of Philosophy, (i) Inaugurated R.K. *Ideological and Philosophical Institute* and delivered key-note address "Methodology. Knowledge and Man -

A Marxist Analysis" jointly sponsored by R.K. Ideological and Philosophical Institute and Andhra University, Sept. 5, 1994; (ii) Seminar on "Man, Science and Social Change" paper presented "Knowledge, Metaphysics, Man and the Logical Positivists (A.J. Ayer) - A Dialectico - Materialist Approach" Department of Philosophy. Andhra University, Sept. 5 - 6, 1994.

SCHOOL OF SOCIAL SCIENCES

99. Deepak Nayyar, (CESP) (i) Workshop on "Economic Reforms, Employment and Poverty in India", ILO-ARTEP, New Delhi, 1-2 September 1994. Chaired session; (ii) Seminar on "Economic Reforms, the Public Sector and the Trade Union Movement", Nehru Memorial Museum and Library, New Delhi, 3 September 1994. Paper presented : 'Trade Union Responses to Globalisation'; (iii) Conference on "GATT-94 : Implications for Developing Countries", India International Centre, New Delhi, 22 November 1994. Chaired session.

100. Sheila Bhalla, (CESP) (i) Seminar on World Economy in Transition, Indian Institute of Advanced Study, Shimla. Participated in panel discussion, chaired session; (ii) 36th Annual Conference of the Indian Society of Labour Economics from 5th January to 7th January 1995 in Patiala. Paper presented : *Poverty, Workforce Development and Rural Labour Markets*; (iii) National Seminar on Social Development in India, Council for Social Development, New Delhi, 11th January 1995. Paper presented : *Employment, Productivity and Workforce Development in India*.

101. Ramprasad Sengupta, (CESP) (i) International Conference on Energy organised by the World Energy Council in New Delhi on 17-18 November 1994. Paper presented : Energy Efficiency and Sustainable Development : Some Macroeconomic Issues in Indian Context; (ii) National Steel Seminar as an expert in panel discussion session in Delhi on 31st January-1st February 1995; (iii) National Seminar on Planning and Market in memory of Profesor A.K. Dasgupta held by the Department of Economics, Visva Bharati University, Santiniketan on February 12-14, 1995. Paper presented : Economic Reforms, Planning for Transport Development and Institutional Policy; (iv) The Asian Conference on Transport and Economic Reforms organised by Asian Institute of Transport Development and held at Delhi on 23-25 March 1995. Paper presented : Economic Reforms and Institutional options for Transport Sector in India.

102. Pradipta Chaudhury, (CESP) (i) Seventh Indo-Hungarian Round Table Conference on Experiences of India and Hungary in Reforms and Liberalisation of their Economies held at School of International Studies, JNU on 7-8 March 1995. Paper presented : "Liberalisation and Indian Agriculture"; (ii) National Seminar on Agrarian Economy of Colonial Orissa, held at the P.G. Dept. of History, Utkal University, Bhubaneswar on 29 April 1995. Paper presented : "Gains from the introduction of new technology in conditions of backward agriculture : a case study of the development of canal irrigation in Orissa during the colonial period".

103. C.P. Chandrasekhar, (CESP) Workshop on Business Organisations in India organised by the Centre for Studies in Social Sciences, Calcutta, at Mysore in August 1994. Paper presented : "Firms, Markets and the State : A Analysis of Indian Oligopoly".

104. Prabhat Patnaik, (CESP) (i) Conference at Jadavpur University, Calcutta, August 1994. Paper presented : "Capital Mobility and Open Economy Macroeconomics"; (ii) Seminar at CSMCH, SSS, JNU. Paper presented: "The Political Economy of Structural Adjustment"; (iii) A.K. Dasgupta Memorial Seminar at Visva Bharati University in Santiniketan in February 1995. Paper presented : "Plan Versus the Market in the Contemporary World"; (iv) International Seminar on Kerala Studies held at Trivandrum in September 1994. Paper presented: "The International Context and the 'Kerala' Model".

105. Sumananda Sen, (CESP) (i) Indo-French Colloquium on France of Ideas held in Teen Murti in New Delhi in February 1995. Paper presented : "India's External Economy"; (ii) Indo-Hungarian Seminar held in the SIS, JNU in March 1995. Paper presented : "India's External Economic Relations"; (iii) International Workshop on UN 2000 Goals held in March 1995 in New Delhi. Paper presented: "Gender Dimensions of Development Economics : Some Conceptual Issues"; (iv) National Conference on Economic Reforms and Liberalisation held in May 1995 at Kanpur University. Paper presented : "India's External Economy".

106. D.N. Rao, (CESP) (i) Two-day Conference on Financing of Higher Education in India at NIEPA, New Delhi, January 30-31, 1995. Chaired one session; (ii) Platinum Jubilee Conference of the Indian Economic Association held at IGIDR, Bombay during February 19-21, 1995. Paper presented : "Health Status - an international comparison based on a community health status index" (with R.L. Bhat); (iii) National Seminar on the role of state in higher education organised by the Zakir Husain Centre for Educational Studies, JNU, New Delhi on March 9, 1995; (iv) Two-day workshop on "Health Financing in India" organised by the National Institute of Public Finance and Policy, New Delhi, during March 30-31, 1995. Chaired a session.

107. Majid Siddiqi, (CHS) A Seminar on "European Exiles in India" (March 15-16, 1995 at JNU) was organised by the German Studies Centre of the School of Languages. He supervised a project for the GSC in which two students, Kritika Banerjee and Susan George participated, recovering source materials from archives in Delhi and Bombay. A research paper-cum-report, "Jewish and Central European Exile in Colonial India Between the wars" was presented at the seminar on 15 March 1995.

108. Satish Saberwal, (CHS) Seminar on "Constitutional history and rule of law", organized by Max Mueller Bhawan, Bangalore, National Law School of India University, Bangalore, and other institutions, Feb. 16-18, 1995. Contributed a paper, "Enlargement of scales, plural traditions, and rule of law : Comparative reflections on European and Indian history".

109. K.K. Trivedi, (CHS) (i) Discussant, International Seminar on "The Bay of Bengal in India Maritime Trade and Cultural Network", 1500-1800," 16-20 December 1994, Nehru

Museum & Library, Delhi; (ii) Attended Indian History Congress at Aligarh, 20-23 December 1994; (iii) Informal discussion on "Korean and Indian Folklore", 14 February, 1995 organised by the Secretary, Indian History Congress, at Deptt. of History, Delhi University, Delhi; (iv) Jt. Coordinator, "Refresher Course in History", Academic Staff College, JNU Aug-Sept. 1994; Jan.-Feb. 1995.

110. K.N. Panikkar, (CHS) (i) Seminar on "Intellectual History of India", Deptt. of History, Rajasthan University, Jaipur; Presented paper and chaired a session; (ii) Seminar on East West Dichotomy, History Dept. M.G. University, Kottayam. Inaugural speech, 15 March, 1995.

111. Kunal Chakrabarti, (CHS) Literature and the study of the Oppressed Social Groups, "Brahmanical Hegemony and 'Revolt' of the Oppressed Social Groups: Notes on Two Readings".

112. Suvira Jaiswal, (CHS) Seminars, (a) (i) Participated in the University of Poona, Dept. of History Silver Jubilee Seminar on "Recent Trends in Historiography with special reference to Subaltern Studies" held at Poona from 18-3-95 to 20-3-95 and presented a paper on : Recent Trends in the Historiography of Ancient and Early Medieval India with particular reference to Subaltern groups (ii) She chaired the morning session on 19-3-95. (b) Participated in the First Session of Association for the Study of History and Archaeology held at Kurukshetra, Haryana on the 8th and 9th April 1995 and presided over the morning session of 9-4-95.

113. Aditya Mukherjee, (CHS) Seminars : (i) "Forms of Social Consciousness in Modern India" (sponsored by ICHR), Punjab University, Chandigarh 27-29 January, 1995. "The Consciousness of the Indian Capitalist Class" (ii) Constructing Nation in India: Ideas & Processes" Kurukshetra University, Haryana 10-12 March 1995, "Why the Bourgeois Constructing was Hegemonic".

114. Mridula Mukherjee, (CHS) Seminars, (i) "Forms of Social Consciousness in Modern India", Punjab University Chandigarh 27-29 Jan. 1995, "Peasant Consciousness in Colonial Punjab": (ii) "Constructing Nation in India : Ideas and Processes". Kurukshetra University, Haryana, 10-12 March 1995, "Nationalism and the Peasantry : Punjab in the First half of the 20th Century".

115. Shereen Ratnagar, (CHS) "Technology and Society ; The Protohistoric Period". Paper read at Gandhi University Workshop, Kottayam, on Technology, Change, and Development, February 22-28, 1995.

116. Balveer Arora, (CPS) (i) Conference on "National Bureaucracies in Federal Systems-The All India Services", Centre for Policy Research, New Delhi, January 11-13, 1995; (ii) Conference on "Economic Reforms : Role of States and Centre-State Relations". Observer Research Foundation, New Delhi, March 4-5, 1995.

117. Kiran Saxena, (CPS) Seminar "Women Politics and Developing Countries", Centre for Women's Studies, Chandigarh, Punjab University, Chandigarh, 18-22 Sept. 1994.

118. Sudha Pai, (CPS) (i) "TATA and Indian Democracy", One day Workshop at CPS, JNU February 12, 1995; (ii) "From Developmentation to Elite-Oriented Growth : Impact of industrial Policy Libleralization in India", Paper presented at International Seminar on *Explaining Indian Politics : The State and the New Liberal Agenda*, at CPS, SSS, JNU March 19-21, 1994; (iii) "Elections and Economic Reform : The AP Elections and the Distributional Aspects of Fiscal Reform", paper presented at the National Seminar organised by the ICSSR on *State Asembly Elections in India, May 9-12, 1994*.

119. Gurpreet Mahajan, (CPS) "Conceptualising the Right in India", paper presented at the Seminar on "Explaining Indian Politics : the State and the New Liberal Agenda, CPS, JNU, Delhi.

120. Imrana Qadeer, (CSMCH) (i) "National Consultation on Tuberculosis", New Delhi, VHAI, 13th-14th July 1994; (ii) "ICPD Strategy Planning Meeting", New Delhi, DAWN-INDIA, 29-30 July 1994; (iii) "Women and Health Workshop", New Delhi, VHAI, 28-29th July 1994; (iv) "Discussion on the Proposed Changes in the National Tuberculosis Programme", New Delhi, 17th August 1994, CSM&CH, SSS, JNU; (v) "National Consultation on Rights of the Child", New Delhi, 21-23rd November 1994. Indian Council for Child Welfare; (vi) "National Seminar on World Development Report 1993 - Investing in Health : Implications for Health and Family Welfare in India", New Delhi, CSM&CH, SSS, JNU, 8th-9th December 1994.

121. K.R. Nayar, (CSMCH) (i) "National Workshop on Social and Behavioural Sciences in Medical Undergraduate Training", New Delhi, 26-27th November 1994; (ii) "National Seminar on World Development Report - 1993: Its Implications for Health and Family Welfare in India, New Delhi, 8th & 9th December 1994. Presented a Paper, "The New Era of Growth, An Epitaph to the Environment"; (iii) International Conference on Health and Environment. Calcutta, Dec. 15-18th, 1994. Presented a Paper, "Sustainable Development, Conceptral Issues and Linkages with Environment and Health".

122. Mohan Rao, (CSMCH) (i) "Conference on "Population Policy", Centre for Area Studies, Osmania University, Hyderabad, 22nd-23rd August, 1994. Paper presented "Class Differentials in Mortality & Fertility"; (ii) Seminar on "Feminity, the Female Body and Sexuality in Contemporary Society", Nehru Memorial Museum and Library, New Delhi, 24th Nov. 1994. Paper presented "Women and Health in India: A Perspective"; (iii) National Seminar, "WDR 1993 - Implications for Health & Family Welfare in India", 8-9th Dec. 1994, New Delhi, Paper presented "The Writing on the Wall".

123. Prabha Ramalingaswami, (CSMCH) (i) National Workshop on Social and Behavioural Sciences in Medical Undergraduate Training organised by Psychiatric Education Committee of the Indian Psychiatric Association and K.L. Wig, Centre for Medical Education and Technology at all India Instt. of Medical Sciences, New Delhi, Nov. 26-27. Participated and presented a paper on *Social Science Teaching in Undergraduate*

Medical Education; (ii) First National Training Workshop in Clinical Neuro Psychology, Feb. 20th, 25th, 1995 at All India Inst. of Medical Sciences, New Delhi. Participated and presented paper on "Current Trends in Intelligence and its Evaluation".

124. Ahmad, A., (CSRD) (i) "Human Social Security and Sustainable Development", February 20, 1995, New Delhi; (ii) International Conference on "Commercial Activities and Regional Development in the Indian Ocean Region", March 23-26, 1995, New Delhi; (iii) "Social Environment for Sustainable Development", April 12-13, 1995, Mhow (M.P.), *Social Environment for Sustainable Development issues in Theory*; (iv) Atlas of Man and Women in India", April 19, 1995, New Delhi.

125. Chadha, G.K., (CSRD) (i) "Rural Industrialization in India : Problems and Prospects", August 17-18, 1994, New Delhi. *Industrialization Strategy and the Growth of Rural Industry : The Indian Experience*; (ii) Indo-Hungarian Round Table Conference on "Experiences of India and Hungary in Reform and Liberalization of Their Economies", March 7-8, 1995, New Delhi. *New Economic Policy and Indian Agriculture : Some Reflections on Emerging Trends*; (iii) "The Contemporary History of the Punjab", February 27-28, 1995, Chandigarh; (iv) "Land Consolidation in India: Can Market Do Where Legislation Could Not Do? ", March 9-10, 1995, Bombay. *Lessons from Punjab's Successful Story of Land Consolidation*.

126. Kumar, Naresh, (CSRD) (i) "GIS Bihar", February 9-11, 1995, Patna. *GIS Application for Infrastructural Planning*; (ii) "National Symposium on GIS Technology, Applications & Resources Management", February 22-24, 1995, Madras. *GIS and Atlas Production: Some Experiences from Gender Atlas of India*.

127. Kumar, Satish., (CSRD) (i) Workshop on "Value Education", 1994, New Delhi. *Isunesaburo Makiguchi and Value Creation : Towards Humanistic Education*; (ii) National Seminar on "Mahatma Gandhi and Communal Harmony, 1994, New Delhi. *Gandhism and Buddhism: A Continuity in Spiritual Tradition*; (iii) "Status and Prospectus of Income Opportunities of Women in Slum Areas of Calcutta", 1994, New Delhi; (iv) Cairo Conference on "Population and Development and What Next?", 1994, New Delhi, IASP & IIC.

128. Kundu, A., (CSRD) (i) National Conference on "Poverty and Employment", March 27-29, 1995, IAMR. *Poverty and Unemployment in Urban India*; (ii) "Macro Economics of Development", January 28, 1995, NGO, PRIA. Community Participations and Economic Development.

129. Mahmood, Aslam (CSRD) with R.K. Mishra, National Seminar on "Population and Development in Uttar Pradesh", December 1994, Lucknow. *Demographic Determinants of Development in Uttar Pradesh*.

130. Mahmood, Aslam., (CSRD) Workshop on "Nation-Building, Development Process and Communication", March 25-28, 1995, CRRID, Chandigarh.

131. Mathur, Ashok, (CSRD) International Conference on "Indian Labour Economics", January 4-6, 1995, Punjabi University, Patiala.
132. Nangia, S., (CSRD) (i) Conference on "Man and Environment in High and/Lowland Interactive System", February 23-25, 1995, University of Jammu, Jammu. *Slums and the Urban Environment Study of a Squatter Settlement in Delhi*; (ii) with Gopa Kumar, National Conference Lucknow. *Women and Development - An Interstate Profile with Special Reference to Uttar Pradesh*; (iii) International Seminar on "Disaster, Management and Environment", December 9-12, 1994, Delhi University, Delhi. *Human Consequences of Bhopal Tragedy*; (iv) Conference on "Indian Congress of Asian and Pacific Studies", January 27-29, 1995, JNU, New Delhi. *Population Issues in Asia and the Pacific*; (v) IASP Conference, March 25-27, 1995, Lucknow. *New Areas of Research in Population*.
133. Premi M.K., (CSRD) (i) Conference on "Population Moderation Impact of Employment and Economic Growth", June 30, 1994, Agra; (ii) XXI All India Sociological Conference, December 19-21, 1994, New Delhi. *Female Infanticide and Child Neglect as Possible Reasons for Low Sex Ratio in the Punjab, 1881-1931*; (iii) XVII Conference of IASP, March 25-27, 1995, Lucknow. Chaired one session; (iv) National Conference on "Poverty and Unemployment", March 27-29, 1995, New Delhi. *Issues Relating to Poverty and Unemployment Demographic Perspective*.
134. Qureshi, M.H., (CSRD) (i) Seminar on "GATT" May 14, 1994. *Gatt Accord and its Implications on Agriculture. Industry Science and Technology*; (ii) with M.S. Jaglan and Suresh Kumar, National Conference on "Sustainability and Development of Resources", October 23-25, 1994, Aligarh. *Livestock Raising as Strategy for Sustainable Rural Development : An Empirical Study in a Bishnoi Village*; (iii) with M.S. Jaglan and Suresh Kumar, International Seminar on "Environment Sustainable Development and Human Health", February 11-15, 1995, Varanasi. *Integrated Child Development Services and Health Care Facilities in Rural Areas : A Micro-Level Study*.
135. Raju, S., (CSRD) (i) National Seminar on "Social Environment for Sustainable Development", April 12-13, 1995, Dr. Ambedkar National Institute of Social Sciences, Mhow. *A Human Right Issue: Sex Ratios and Female Infanticide in Madhya Pradesh*; (ii) XVI Indian Geography Congress, December 27-29, 1994, National Association of Geographers, Hyderabad. *Ecofeminism in India: A Critique of the Essentialism in Environment and Development*; (iii) Workshop on "An Atlas of Men and Women in India", April 19, 1995, Durham University, U.K.
136. Sharma, R.K., (CSRD) (i) Workshop on "Agricultural/Rural Labour Movement and Organisation in Selected Indian States in India", June 13-14, 1994, NLI, NODIA; (ii) Workshop on "Food Security and Public Distribution System in India", April 28-29, 1995, New Delhi. *Food Security and Public Distribution System in UP and Bihar*; (iii) XXXVI Labour Economics Conference, January 5-7, 1995, Patiala, Punjab.

137. Singh, Harjit, (CSRD) (i) International Himalayan Programme and Action Project, February 10-12, 1995, New Delhi; (ii) "Environmental Concerns in South Asia", April 10, 1995, New Delhi. *Mountain Ecology in India - A Few Theoretical Observations*; (iii) XVI Indian Geography Congress, Hyderabad, 24-27 December, "Socio-Economic Set-up of Pangi Valley".
138. Sinha, S., (CSRD) (i) "Investing in Health CCHSM, December 8-9, 1994, JNU, New Delhi; (ii) "Literacy among the Minorities in Haryana", October 28, 1994, HIPA Gurgaon; (iii) Asian Conference on "The Emerging role of the State in the Transport Sector in the Perspective of Economic Liberalization", March, 20-23, 1995, Asian Institute of Transport Development, Vigyan Bhawan, New Delhi; (iv) National Seminar on "Implication of Assembly Elections Results", May 9-10, 1995, ICSSR, India International Centre, New Delhi.
139. Sivasami, K.B., (CSRD) (i) "GIS Technology, Applications and Resource & Facility Management", February 21-24, 1995, Madras. *GIS Application in River Basin Studies*; (ii) with P. Krishna Kumar and Ashish Tewari, "Informatics for Sustainable Agricultural Development", May 24-25, 1995, New Delhi. *The Role of Synoptic Climatological Analogue for Agricultural Operation and Management*.
140. Vemuri, M.D., (CSRD) (i) National Seminar on "World Development Report 1993, December 8-9, 1994, New Delhi; (ii) Seminar on "Quality of Care", March 29, 1995, New Delhi.
141. Yogendra Singh, (CSSS) "XXI All India Sociological Conference", December, 19-21, 1994, New Delhi. "Presidential Address".
142. R.K. Jain, (CSSS) (i) "Ethnicity in the Context of Social Change", April 16, 1994. "Ethnicity in the Context of Social Change", New Delhi; (ii) "Modern India : Terms of Discourse", May 23, 1994, Shimla. "On the Duo Traditional and Modern and its Replacement"; (iii) "Organisational and Institutional Aspect of Religious Movements", October 25, 1994, Shimla. "The Socio-Cultural Nexus of Jain Schisms : Text & Context"; (iv) "Conference on the Indian Diaspora", November 1, 1994, Hyderabad. "Global View of the Indian Diaspora : A Theme Paper"; (v) "XXI All India Sociological Conference", December 19-21, 1994. "Sociology and the Study of Culture".
143. K.L. Sharma, (CSSS) "Dalit and Dalit Movements in India", October 1994, Mussorie. "Identity and Movement among Dalits in India".
144. M.N. Panini, (CSSS) (i) "Role of Advertising Media in Social Change", July 1994, Bangalore. "Role of Media in India's Development"; (ii) "XXI All India Sociological Conference", December 19-21, 1994, New Delhi. "Globalization, Cultural Identities and Social Change"; (iii) "Weekly Colloquium", February 10, 1995, Delhi. "Political Economy of Caste".

145. C.N. Venugopal, (CSSS) "XXI All India Sociological Conference", December 19-21, 1994, New Delhi.
146. Dipankar Gupta, (CSSS) (i) "Problems of Minorities", November 6, 1994, Shimla. "The Making of Minority Consciousness"; (ii) "Culture and Politics", December 19, 1994, New Delhi. "Secularization and Minoritization"; (iii) "Contemporary Social Process", January 23-25, 1995, Bangalore. "Contemporary Social Process".
147. J.S. Gandhi, (CSSS) (i) "XXI All India Sociological Conference", December 19-21, 1994, New Delhi; (ii) "Constitutional History : the Rule of Law", February 16-18, 1995, Bangalore. "Constitutionalism, Adaptations and Improvisations - The Case of Contemporary India"; (iii) "Population Sustainable Development", April 1995, Shimla. "Structure of Judicial Cognition and the Problem of Ecology".
148. Nandu Ram, (CSSS) (i) "Weaker Sections and Priority Areas", April 12-14, 1994, Mhow. "Problems of the Weaker Sections and the Priority Areas for Study for the Dr. Babasaheb Ambedkar National Institute of Social Sciences"; (ii) "Status of Dalits in India", September 1994, Mussoorie. "Equality Through Privilege : Limits of Gradual Change"; (iii) "XXI All India Sociological Conference", December 19-21, 1994, New Delhi; (iv) "Dalit Movements in Comparative Perspective", March 10-11, 1995, Delhi. "Dalit Movements and Assertion for Social Identity : A Socio-Historical Perspective".
149. Ehsanul Haq, (CSSS) "XXI All India Sociological Conference", December 19-21, 1994, New Delhi.
150. Anand Kumar, (CSSS) (i) "XXI All India Sociological Conference", December 19-21, 1994, New Delhi. "Youth Culture in India : Some Issues"; (ii) "National Convention Indian Association of Social Sciences", February 5-7, 1995, Varanasi. "State, and Development in India".
151. Tiplut Nongbri, (CSSS) (i) "Gender and Kinship : Perspectives from South Asia", April 14, 1994, New Delhi, "Gender and Matriliney"; (ii) "Gender Issues in Development", May 1994, Mussoorie. "Gender and Tribal Development : Need for Rethinking"; (iii) "International Year of the Family", October 1994, New Delhi. "IGY : Explorations into the Family and Household Structure"; (iv) "International Year of the Family", November 1994, New Delhi, "Tribal Women and the Family"; (v) "Defining the Good Society", May 5-6, 1995. "Education and Tribes".
152. Maitrayee Chaudhuri, (CSSS) (i) "Contending Identities and Contesting Classes : State, Gender and Community", September 9, 1994, Delhi; (ii) "State, Community and Gender : An Analysis of Some Debates", September 23, 1994, New Delhi; (iii) "Globalization, Culture and Women's Development", March 10, 1995, Chandigarh. "The World of Advertisement and the Means of Globalisations".
153. Avijit Pathak, (CSSS) "Alternative Thoughts on Indian Polity and Culture", February 16, 1994, New Delhi.

154. Binod Khadria, (ZHCES) (i) "National Seminar on Education, Development and Underdevelopment - Dilemmas and Breakthrough, August 8-10, 1994, Developing Countries Research Centre, University of Delhi. Paper : "Consistency and Contradiction in the Development Underdevelopment Relationship : A Perspective View on Causes and Consequences of Policy for Brain Drain"; (ii) "National Seminar on Financing of Education for EFA, September 5, 1994; NIEPA, New Delhi. Paper : "Implications of Functional link between Liquidity Preference and Investible Time for Education for All--Conceptual Constraints in Community Financing of Elementary Education"; (iii) "AIMS Second National Management Research Development Workshop, organised by the Association of Indian Management Schools and Canadian Consortium of Management Schools, and sponsored by Canadian International Development Agency, at Gurgaon, October 24-28; Coordinator and Member, Organizing Committee; (iv) "International Conference on Indian Diaspora, November 1-2, 1994; U.G.C. and RGF at University of Hyderabad. Paper : "Brain Drain or Brain Bank? Aspects of Professional Indian Immigration to USA"; (v) "Seminar on Funding of Higher Education in India, 23-24 January, 1995; NIEPA, New Delhi; (vi) "National Seminar on "World Development Report 1993 - Investing in Health", CSMCH, SSS, JNU, December, 1994; (vii) "Dialogue between Distinguished Scholars from France and India, at Nehru Memorial Museum & Library, Teen Murti House, New Delhi, February 13-15, 1995; (viii) "National Seminar on Role of State in Higher Education, March 9, 1995, ZHCES, SSS, JNU, Paper : "Commercialization of Higher Education".

155. Geetha B. Nambissan, (ZHCES) "Human Rights Education and the Schooling of Dalit Children" Workshop on Human Rights Education, IIC, New Delhi 11 March, 1995.

156. Karuna Chanana, (ZHCES) (i) "Human Rights and the Emerging World Order", India International Centre, New Delhi, 18 November, 1994; (ii) "Conference on Femininity, the Female Body and Sexuality in Contemporary Society, Nehru Memorial Museum and Library, New Delhi , 21-24 November, 1994, Chaired; (iii) "National Consultation of Directors of Women's Studies Centres in India, Punjab University, Chandigarh, 8-10 December 1994. Recourse person & Chaired; (iv) "A Dialogue Between Distinguished Scholars From France and India, sponsored by Ministry of External Affairs, France, Maison Des Sciences De L' Homme, Paris; and on the Indian side, the ICSSR, the ICHR and the Nehru Memorial Museum and Library; 13-15 February 1995; (v) "Regional Seminar on Child 2000 - Issues and Concerns, Eicher School, Parwanoo, February, 11, 1995. Paper : Sociological Scenario - 2000; Constraints of the Education System; (vi) "Spinning Knowledge : Feminist Theories and Methods", USEFI, New Delhi, 20-21 March, 1995. Discussant & Chair; (vii) "Workshop on Learning process and Modes of Participation, Dept. of Sociology, Jamia Millia Islamia & Society for Participatory Research in Asia (PRIA), New Delhi, March 23-25, 1995; (viii) "Workshop on Violence Against Women, Centre for Women's Development Studies, New Delhi 27-28 March, 1995; (ix) "National Conference on Women and Panchayati Raj, Institute of Social Sciences, New Delhi 23-24 April 1995 Chaired.

157. Sushila Singhal, (ZHCES) VIth Annual Conference of the National Academy of Psychology, December 21-23, 1994, Allahabad, U.P. Paper : "Social Justice in the Context of Education".

FACULTY LECTURES

OUTSIDE JNU

SCHOOL OF COMPUTER & SYSTEMS SCIENCES

1. Renu Varshneya, (i) Series of lectures on "Microprocessor based system design", Institute of Electronics and Telecommunication Engineering, New Delhi August-December 1994; (ii) Series of lectures on "Microprocessors", Telecommunication Consultants India Ltd., New Delhi, August-November 1994.
2. K.K. Bharadwaj, "Lecture series on Computer Programming and its applications", The Institute of Electronics and Telecommunication Engineers, Lodi Road, New Delhi.
3. Karmeshu, (i) "Modelling Innovation Diffusion and technology substitution", P.L. Bhatnagar Memorial Lecture delivered at the 60th Annual Conference of Indian Mathematical Society on 28th December 1994; (ii) "Replacement Dynamics and Applications to urbanization", Delivered at Institute for Population Research and Social Policy, University of Bielefeld, Germany on Sept. 30, 1994; (iii) "Stochastic modelling of social dynamics and Conflict Processes", at Potsdam Institute for Climate Impact Research, Potsdam, Germany on October 5, 1994; (iv) "Stochastic Analysis of Critical behaviour in slotted - ALOHA system", at University of Twente, Enschede, The Netherlands on October 17, 1994; (v) "Stochastic models of innovation diffusion with multiple steady states". Service de Chimie Physique, Universite Libre de Bruxelles, Belgium on October 19, 1994; (vi) "Nonlinear stochastic modelling of Innovation diffusion", Department of Statistics, Texas A & M University, Texas, USA on April 17, 1995.

SCHOOL OF ENVIRONMENTAL SCIENCES

4. B. Padmanabhamurty, (i) "Air Environment - Baseline data, Principles and Methodology" Environmental Protection, Training & Research Institute (EPTRI), Hyderabad, June 29, 1994; (ii) "Air Environment - Prediction, Modelling, Identification of data and generation of relevant parameters" EPTRI, Hyderabad, June 29, 1994; (iii) "Environmental Issues in India" Parliamentary Standing Committee on Science & Technology, Environment & Forests, Parliament Annexe, New Delhi. Sept. 20, 1994. (iv) "Urbanization and Climate" 15th Orientation Course in Natural Sciences, Academic Staff College, JNU, Nov. 28, 1994.
5. P.S. Ramakrishnan, (i) Invited special lecture on "Equity and the Global Environment: Protecting Biodiversity An Indian Perspective. Cornell Institute for Social and Economic Research, Cornell University. May 1, 1994; (ii) Lecture on "Shifting Cultivation and Sustainable Development" Institute of Economic Growth, New Delhi. January 31, 1995.

6. R. Subramanian, (i) Selenium in Health Disease: Tamil Nadu Hospital, Madras, 24 June 1994; (ii) Hair as an Indicator of Toxic Elements in Environmental Occupational and Health Exposures, Deptt of Community Medicine and Behavioural Sciences, Faculty of Medicine, Kuwait University, Kuwait, 21 March 1995; (iii) Biological Monitoring of Selenium. Deptt of Biochemistry, Sultan Qaboos University, Muscat, Sultanate of Oman, 25 March 1995; (iv) Mineral Deficiencies, Supplementation and Toxicity in Ruminant Livestock, Deptt of Animal Sciences, Sultan Qaboos University, Muscat, Sultanate of Oman, 1 April 1995.

SCHOOL OF LIFE SCIENCES

7. Guha-Mukherjee, Sipra, "Genetic Engineering in Plants, IAAWS, Daulat Ram College, October, 1994.
8. Prasanna Mohanty, Regional Plant Research Centre, Bhubaneswar, Research Methods in Metal Toxicity in Plants, March, 1995.
9. A.R. Rao, (i) "Chemoprevention of Cancer" Guru Nanak Dev University, Amritsar, April, 1995; (ii) "Who Runs the Risk of Cancer?" Govt. College, Karnal, September 13, 1994; (iii) "AIDS the Killer Disease" Govt. College, Gurgaon, September 12, 1994.
10. Singh, R., (i) "Neuronal Ageing", Biochemistry Department, Osmania University, Hyderabad, September 15, 1994; (ii) "Environmental influences on Ageing and Physiological Processes", Department of Animal Science, Rohilkhand University, Bareilly (U.P.), November 10-11, 1994.
11. R. Prasad, "Multidrug resistance genes of *Candida albicans*" - Drug resistance from microbes to man", Indian Institute of Sciences, Bangalore, November 1994.
12. R.K. Saxena, (i) "Flowcytometry : an irreplaceable research tool with Immunologists" Cancer Research Institute, Bombay, June 1994; (ii) Saxena, "Natural Killer Cells", Defence Research and Development Establishment, Gwalior, Dec. 3-5, 1994; (iii) "Cytokines and cytokine receptors", Defence Research and Development Establishment, Gwalior, Dec. 3-5, 1994; (iv) "Immune-tolerance", Defence Research and Development Establishment, Gwalior, Dec. 3-5, 1994; (v) "Inflammation". Department of Zoology, Meerut University, Jan. 28, 1995; (vi) "Major Histocompatibility antigens", Department of Zoology, Meerut University, Jan. 28, 1995.
13. R.K. Kale, (i) "Isotopic Techniques", Lecture was given to the post graduate teachers, Kendriya Vidyalayta, INA Colony, New Delhi, June 1, 1994; (ii) "Biological effect of ionizing radiation", Department of Environmental Sciences, Dr. Babasaheb Ambedkar-Marathwada University, Aurangabad, June 15, 1994; (iii) "Mechanism of cell damage and death induced by radiation", Department of Environmental Sciences, Dr. Babasaheb Ambedkar-Marathwada University, Aurangabad, June 16, 1994; (iv) "Limitations of radiation therapy of cancer and how to overcome", Department of

Environmental Sciences, Dr. Babasaheb Ambedkar-Marathwada University, Aurangabad, June 17, 1994; (v) "Methylglyoxalase in biological systems and its importance", Department of Zoology, University of Rajasthan, Jaipur, October 22, 1994; (vi) "Free Radicals ; chemistry of Cell damage and death" (Part I), Department of Chemistry, Dr. Babasaheb Ambedkar-Marathwada University, Aurangabad, March 20, 1995; (vii) "Free Radicals : Chemistry of Cell damage and death" (Part II), Department of Chemistry, Dr. Babasaheb Ambedkar-Marathwada University, Aurangabad, March 21, 1995; (viii) "Role of transition metals in free radical processes", Department of Chemistry, University of Poona, Pune, March 23, 1995; (ix) "Methylglyoxalase system : A biochemical indicator for biological radioprotection studies". Institute of Nuclear Medicine and Allied Sciences, New Delhi, May, 1, 1995.

14. P.K. Yadava, Delivered lectures on Molecular Evolution, DNA Replication and New Biocatalysts to Biology Teachers of Kendriya Vidyalaya from all over the country as a part of their refresher programme.

15. R. Madhubala, "Homeotic genes" Academic Staff College, New Delhi, Nov. 10, 1994.

16. P.C. Rath, Role of Interferon Regulatory Factor-1 (IRF-1) in Interferon (IFN) gene expression, Institute of Life Sciences, Bhubaneswar, Sept. 25, 1994.

SCHOOL OF PHYSICAL SCIENCES

17. H.B. Bohidar, (i) "Physical Properties of Polymers", Academic Staff College, 14th May, 1994, New Delhi; (ii) "Polymer Physics-I", Academic Staff College, 25th November, 1994, New Delhi; (iii) "Polymer Physics-II", Academic Staff College, 28th November, 1994, New Delhi.

18. R. Ghosh, (i) "Quantum Mechanics with Nonlinear Optical Signals", Delhi University, October 27, 1994; (ii) "Quantum Mechanics with Nonlinear Optical Signals", IIT New Delhi (Physics Society), April 20, 1995; (iii) "Two-Photon Correlation: Experimental Techniques & Scope", SERC School on Coherence & Correlations in Optics & Modern Physics, Institute of Mathematical Sciences, Madras, Feb. 2-4, 1995.

19. D. Kumar, (i) "Phase Diagrams of Binary Alloys"; (ii) "Quantum Measurement Problem", Physics Department, University of Roorkee, December 11, 12, 1994; (iii) "Quantum Measurement Problem", S.N.Bose Centre of Basic Sciences", Calcutta, March 30, 1995; (iv) "Nucleation in Binary Alloys", Saha Institute of Nuclear Physics, Calcutta, March 31, 1995.

20. R. Rajaraman, (i) "The Story of Elementarity", Colloquium at the University of Delhi, August, 1994; (ii) Six(6) Lectures on "Topological Field Theory", SERC School on High Energy Physics, Organised by DST at B.H.U. on March 8-14, 1995; (iii) "The top-quark" at the Nuclear Science Centre, New Delhi, April 10, 1995; (iv) "The Story of Elementarity", Banaras Hindu University, November 16, 1994.

21. R. Ramaswamy, (i) "Hamiltonian Dynamics", (6 lectures), Centre for Advanced Technology, Indore, January/February, 1995. (ii) "Complexity", Venkateshwara College, Delhi, 1995.

22. A.K. Rastogi, "Electronic Properties of Cluster Compounds", Laser Technology Centre, Indian Institute of Technology, Delhi, Feb. 6, 1995.

CENTRE FOR BIOTECHNOLOGY

23. K.B. Roy, "Triplex formation by alternate strand recognition: - School of Life Sciences, Hyderabad, Central University, Hyderabad, January 14, 1995.

24. H.K. Das, (i) "Recombinant DNA Technology" St. Stephens College, University of Delhi, May 30, 1994, Delhi; (ii) "Biotechnology of Nitrogen Fixation : Relevance to Agriculture", Biotechnology Endowment Lecture at Tamil Nadu Agricultural University, Coimbatore, October 20, 1994; (iii) "Genetic Engineering in Industrial Biotechnology" IIT, Delhi, December 5, 1994.

25. Rakesh Bhatnagar, Silver Jubilee Oration Lecture, Institute of Pathology, Delhi "Bioinformatics".

SCHOOL OF INTERNATIONAL STUDIES

26. Yogesh K. Tyagi, (CSIDLE) "Humanitarian Intervention", Indian Institute of Public Administration, Regional Branch, Jammu, July 30, 1994.

27. Sumitra Chishti, (CIPOD) "Regionalism" Indian Institute of Foreign Trade, New Delhi, March 24 and April 20, 1995.

28. K.S. Jawatkar, (CIPOD) "Strategies of Political Enquiry" at Indian Institute of Technology, New Delhi. Delivered Lectures on various aspects of the aforesaid subject for a Semester : July to December 1994.

29. R.C. Sharma, (CIPOD) (i) "Models in Tourism Planning and Development, Institute of Tourism and Fashion Technology, Chandigarh, March 1995; (ii) "Thematic Approaches in Political Geography", 7 Feb. 1995".

30. Alka Acharya, (CEAS) "Whither Chinese Reforms?", Indira Gandhi National Centre for the Arts, New Delhi, Feb. 16, 1995.

31. K.V. Kesavan, (CEAS) National Defence College, New Delhi, IDSA, New Delhi.

32. Madhu Bhalla, (CEAS) (i) "Culture & Coherence-the Progress of the Liberal Discourse in 20th Century China", Dept. of Chinese & Japanese Studies, Delhi University, 8th March, 1995; (ii) "China Today : Images, Myths & Realities", Deptt. of Political Science, Maitreyi College, Delhi University, Delhi, 4th February 1995.

33. P.A. Narasimha Murthy, (CEAS) (i) "Emergence of Modern Japan as a major player in World affairs", National Defence College, Tees January Marg, New Delhi, Friday, 20 May 1994; (ii) "Japanese Foreign Policy : Japan, a Super Power?" Foreign Service Institute (Ministry of External Affairs) Akbar Bhavan, New Delhi, 26 September, 1994; (iii) "Japan's rise as an economic power: its geopolitical significance", Indian Institute of Foreign Trade (Ministry of Commerce) New Delhi, 6 February, 1995; (iv) "Japan and the Asian economies : from dependence to competition", IIFT, 6 February 1995; (v) "Japan and regional trading blocs: to be with APEC or EAEC?", IIFT, 8 February, 1995; (vi) "Japan, the European Union and the United States: tripolar competition and co-operation", IIFT, 8 February, 1995.
34. Baladas Ghoshal, (CSCSEA&SWPS) (i) "The Emerging Scenario in ASEAN", National Defence College, May 25, 1995; (ii) "India's Economic Interests in South Africa", Institute of Foreign Trade, May 18, 1995; (iii) "India and Southeast Asia", Foreign Service Institute, July 12, 1995.
35. K. Warikoo, (CSCSEA&SWPS) (i) "Central Asia : Afghanistan and the Five Republics", National Defence College, New Delhi, August 18, 1994; (ii) "The Changing Profile of Xinjiang", Institute of Chinese Studies, New Delhi, November 23, 1994; (iii) "The Problems of Transition in Kyrgyzstan", University of Kashmir/Jammu, November 28-30, 1994; (iv) "Human Rights: A View from Geneva", India International Centre, New Delhi, May 2, 1995.
36. Nancy Jetly, (CSCSEA&SWPS) (i) "South Asian Regional Cooperation", and "India-Pak Relations", at University of Rajasthan, Sept. 1994; (ii) Delivered a lecture on South Asia at the Academic Staff College, JNU, November, 1994; (iii) Delivered a lecture on "India and South Asia : The Changing World Order" for the Pt. Hridaynath Kunznu Memorial Lectures on International Affairs on "NU and the Changing World Order" in March, 1995.
37. B. Vivekanandan, (CAWES) "Indo-British Relations : Problems and Prospects", to IFS Probationers, Ministry of External Affairs, New Delhi, October 1994.
38. A.H.H.Abidi, (CWAAS) (i) "Strategic Issues & Destablizing Focus in West Asia", National Defence College, New Delhi, 28 July 1994; (ii) "Relations between India and Iran, 1947-79", Iran Culture House, New Delhi, 7 September 1994; (iii) "Ideological Perceptions in Indo-Iranian Relations", IIC, New Delhi, 19 January 1995; (iv) Presided over a lecture by Prof.Z.A. Nizami on "A Decade of Indo-Iranian Relations - 1979-89", Iran Culture House, New Delhi, 26 April 1995.
39. Gulshan Dietl, (CWAAS) (i) Addressed 34th National Defence College course at the NDC, New Delhi, 2 August 1994 "Iran: Its Role in the Region"; (ii) Delivered lectures on "Iran: Domestic Politics" and "Iran: Foreign Policy", at the Department of Political Science, University of Rajasthan, Jaipur, 5 September 1994; (iii) lecture on "Recent Developments on Iraq-Kuwait Border", at the Foreign Policy Study Group, JNU, 28 October 1994; (iv)

delivered a lecture on "Sanctions Against Iraq: A critique" at the Pandit Haridayanath Kunzru Memorial lecture, 7 March 1995.

40. Gupta Anirudha, (CWAAS) (i) "Post-War Politics" at Konkani Academy of Journalism, Goa, 11 June 1994; (ii) "Something on Nothing", Hyderabad Central University, Department of Political Science, 9 November 1994; (iii) "Dialectics in World Politics" at JNU National Academy, 11 November 1994; (iv) "Africa and UN Peacekeeping", SIS Extension lecture, 10 March 1995; (v) "Cooperation with South Africa", Technology Bhawan, 16 February 1995.

41. Gupta Vijay, (CWAAS) (i) "Problems and Prospects: Indians in South Africa", India Anti-Apartheid Movement, Parliament House Annexe, New Delhi, June 3, 1994; (ii) "Mozambique: Economic and Social Conditions and Security Situation", Border Security Force (UNOMOS), New Delhi, June 9 1994; (iii) "Indians Relations with African Countries", Foreign Service Institute, M.E.A., New Delhi, 9 September 1994; (iv) "Africa: A Historical Review", National Defence College, New Delhi, July 19, 1994.

42. Mohapatra A.K., (CWAAS) (i) "Cyprus Tangle: An Overview", Cyprus, UN and Conflict Resolution by Indo-Cyprus Friendship Society, New Delhi, March 22-23, 1995; (ii) "Cyprus Tangle and Role of UN" Kunzru Memorial Lecture, 30th March 1995.

43. Pasha A.K., (CWAAS) (i) "India's Economic Interests in WANA", Indian Institute of Foreign Trade, New Delhi, 17 January 1995; (ii) "India's Policy Towards WANA: The Politico-Security Aspect", Indian Institute of Foreign Trade, New Delhi, 16 January, 1995; (iii) "Libya and the UN: The Issues of Economic Sanctions", Kunzru Memorial Lecture, 22 March 1995, New Delhi; (iv) "Indo-Iranian Relations: The Kashmir Factor", IIC, New Delhi, 18 January 1995.

44. Singh K.R., (CWAAS) (i) "India's Security Concerns", Embassy of the Republic of Indonesia, New Delhi, 18 May 1994; (ii) "Palestinian and Israeli Peace Settlement", National Defence College, New Delhi, 29 July 1994; (iii) "Iraq: An Assessment of Its Future Role", National Defence College, New Delhi, 5 August 1994; (iv) "Indian Ocean Community: Economic and Security Dimensions", India International Centre, New Delhi, 29 September 1994; (v) "Arab-Israel Relations", Foreign Services Institute, Akbar Bhawan, New Delhi, 20 October 1994; (vi) "The Gulf Today", Foreign Services Institute, New Delhi, 25 October 1994.

SCHOOL OF LANGUAGES

45. Abdul Haq, (CAAL) Two Lectures on "Modern Arabic Literature" Staff College, Feb., 1995. Jamia Millia Islamia, New Delhi.

46. S.H. Amanatullah, (CAAL) (i) Reference Course for University Teachers' Jamia Millia Islamia, New Delhi, Dec. 1994. "Modern Arabic Literature through Writing of Ibrahim Abdul Qadir Al-Mazil"; (ii) "All India Seminar. organised by C.I.E.F.L., Hyderabad, March, 1995".

47. Anil Bhatti (CGS) Chairman at the Lecture on "Joseph Roth: An Introduction to His Personality and work" - Speaker Dr. Vishnu Khare, India International Centre, New Delhi. (Collaboration: Austrian Embassy). 2-9-1994.
48. Rekha V. Rajan, (CGS) Introduction to the works of Ernst Augstin, Max Mueller Bhavan, New Delhi, 4.11.94.
49. Manager Pandey, (CIL) (i) "Nagarjun Ki Kavita" P.W.A., Patna, June 18, 1994; (ii) "Dharm, Sanskriti Aur Rajniti Ke Prasanga Mein Rahul", Rahul Sankrityayan Janm Shati Samaroh, Nagpur. June 26, 1994; (iii) "Yatharthavad Aur Uttar Adhunikata, Gorakhpur University, Gorakhpur, Feb.4, 1995; (iv) "Yatharthavad Drishti Aur Shilpa" University of Gorakhpur, Gorakhpur Feb. 4, 1995; (v) "Stree Swadhinata Ka Samajik Sandarbh" I.I.C., New Delhi May 6, 1995.
50. S.M. Abbas Sharib, (CIL) 'Modern Urdu Criticism Extension Lecture Jammu University, Jammu, 5th Dec. 1994.
51. Prem Motwani, (CJNEAL) "Multilingual Country - India", Okinawa International University, Okinawa, Japan, May 20, 1994.
52. Satya Bhushan Verma, (CJNEAL) (i) Changing India and Japan; Panel Discussion; Soka Gakkai; on Literature, New Delhi 4th August, 1994; (ii) Lekhan Ki Swatantrata aur Sahityakar: Seminar, Bharatiya Sahitya Parishad, Delhi 10th August, 1994; (iii) Siraiki aur Prachiya Sahitya; Russian Cultural Centre, New Delhi; 2 September, 1994; (iv) Radio Talk on Adabi Islahat aur Siraiki; All India Radio; 20 September, 1994; (v) On Mahasamar - a novel; Russian Cultural Centre, New Delhi; 7 December, 1994; (vi) Philosophy of Ikebana; Tibetan Cultural Association, New Delhi; 27th February, 1995; (vii) Bharat aur Navin Vishwa-Vyavastha; Government Post-Graduate College, Gwalior; 11 March, 1995; (viii) Techniques of Good Translation; Training Workshop on Buddhist Translation Methodology; Tibet House; 15 March, 1995; (ix) Cultural Concepts in Translation; Training Workshop on Buddhist Translation Methodology; Tibet House; 21 March, 1995.
53. Anvita Abbi, (CLE) (i) "Semantic Typology and Language Teaching" A series of 4 lectures delivered in the UGC sponsored Refresher Course held in CIEFL, Hyderabad. 13-16 February, 1995; (ii) "Morphology of Urdu" A Series of *two* lectures delivered in the UGC sponsored Refresher Course held in Osmania University, Hyderabad, 17-18 February, 1995; (iii) "Linguistic Research in JNU: An Overview". A Talk delivered at Central University, Hyderabad 17-2-95; (iv) "What is Indian in Indian Languages? A Case of Structural Congruity and Structural Cognaters" A Series of *Three* lectures delivered at IIT, Kanpur, March 1st - 3rd 1995.
54. Harish Narang, (CLE) Visiting Fellow at the Centre of New Literatures, University of Jammu, lectured on: (1) "African Literatures" (2) "Literature and Society", (3) "The Eight Schedule and Dogri Language". (4) "Language Policy and Planning in India". (5) "Atrikt Mahila Lekhan" and (6) "Bhasha Te Sabhyachar".

55. Kapil Kapoor, (CLE) (i) "Astadhyayi and Computational Grammar", Department of Computer Sciences and Systems, I.I.T., New Delhi, June 30, 1994; (ii) "Structure of Panjabi" (Three lectures), Department of Panjabi Refresher Course, G.N.D. University, Amritsar; (iii) "Cultural Dimensions of Literary Theory" (four lectures). Refresher Course, Department of English, G.N.D. University, Amritsar, March 15-16, 1995; (iv) "Language Learning Theories and Mother Tongue Learning". Panjabi Academy. Delhi, October 17, 1994; (v) "Cultural Determination of Literary Theory" Department of Humanities, I.I.T., Delhi. April 12, 1995.
56. Meenakshi Mukerjee, (CLE) "Three Lectures at the Refresher's Course, University of Rajasthan, Jaipur, November 13 - 16, 1994.
57. Vaishna Narang, (CLE) Phonetics and Phonology for graduate students of Speech and Hearing in the Department of Otolaryngology, AIIMS, New Delhi Ten lectures, October to December 1994.
58. Varyam Singh, (CRS) 'Present State of Pahari Poetry', Himachal Academy of Arts and Literature & Indian Institute of Advanced Studies, Shimla, May 2-3, 1995.
59. S.P. Ganguly, (CSS) "Latin America in its Novels. The Boom in Retrospect", October 1994, IIC, New Delhi.
60. A.Chattopadhyay, (CSS) "India en la poesia de Octavio Paz", University of Granada, Spain, May 5, 1995.
61. Madan Lal, (CSS) Paschamikaran Va Bhartiya Mulaya" (Western Civilization and Indian Values). Jaipur, January 3, 1995. Akhil Bhartiya Sahitya Parishad, Rajasthan State.

SCHOOL OF SOCIAL SCIENCES

62. Deepak Nayyar, (CESP) (i) "Economic Reforms in India: A Critical Assessment", Ecole des Hautes Etudes en Sciences Sociales, Paris, 8 June 1994; (ii) "Free Trade: Why, When and For Whom?", Lokanathan Memorial Lecture, Indian Economic Association, Mysore, 28 December 1994; (iii) "Economic Liberalisation in India: Analytics, Experience and Lessons", R.C. Dutt Lectures on Political Economy, Centre for Studies in Social Sciences, Calcutta, 6-7 March, 1995.
63. Sheila Bhalla, (CESP) Six lectures on Labour Supply, Labour Markets in Development Models and Changes in Workforce Structure, at National Labour Institute, NOIDA, December, 1994.
64. Prabhat Patnaik, (CESP) (i) Lecture on "Trade as a Mechanism of Economic Retrogression", SOAS, London, October, 1994; (ii) Zakir Husain Memorial Lecture at Zakir Husain College, Delhi, on "The Nation-State in the Era of Globalisation".

65. D.N. Rao, (CESP) (i) Four lectures on "Environmental Economics" on September 12, 14, 19 and 21, 1994 at the School of Planning and Architecture, New Delhi; (ii) "Single Equation Regression Models" at the Academic Staff College, JNU on 29 September 1994; (iii) "Issues in Health Economics Research" at the Academic Staff College, JNU, on 6 October, 1994; (iv) "Fiscal Policy for Environmental Protection" at the Academic Staff College, JNU, on 18 October, 1994; (v) Three lectures on "Economic Aspects of Taxation" at the Indian Law Institute, New Delhi, on April 4, 5 and 10, 1995; (vi) "Monitoring Health Related Projects for Their Human Face" at the Department of Economics, University of Hyderabad on January 2, 1995; (vii) "Equity, Efficiency and Cost-effectiveness in Health Services - An Empirical Viewpoint" at the National Institute of Health and Family Welfare, New Delhi, on January 31, 1995; (viii) "Measuring Burden of Disease" at the Population Research Centre, Department of Statistics, Andhra University, Visakhapatnam on March 1, 1995; (ix) "Environmental Economics" at the Department of Economics, University of Rajasthan on March 18, 1995; (x) Two lectures on "Environmental Economics" at the Department of Environmental Science, P.G. Regional Centre, Hissar, Kurukshetra University, Kurukshetra on March 25 & 27, 1995; (xi) "The economic effects of commodity taxation", at the National Institute of Public Finance and Policy, New Delhi, on April 18, 1995; (xii) "Six lectures on "Computer applications in Economics" at the Department of Economics, Jamia Millia Islamia, Delhi, during March-April 1995.

66. Shereen Ratnagar, (CHS) "The present in the past: Archaeology in Modern India", Department of Sociology SNDT University, Bombay.

67. B.D. Chattopadhyaya, (CHS) Presidential Address on "Ancient Section", delivered at Punjab History Conference, Patiala, March 1995. Title of the Address: 'Geographical perspectives, culture change and linkages; some Reflections on Early Punjab'.

68. Muzaffar Alam, (CHS) Lecture on Sharia and Governance in Mughal India at Department of History, Delhi University on November 22, 1994.

69. Suvira Jaiswal, (CHS) (i) gave a talk on "Ashoka and his concept of non-violence" at a symposium jointly organised by the Indian Council of Cultural Relations and Sokoa Gakkai International of Japan on 9.8.1994 at Nehru Memorial Library and (ii) A talk on "Socio-Economic, Political and Literary Context of the Bhakti Movement in Medieval India" (in Hindi) in a symposium organized by the Department of Hindi, Kirori Mal College, University of Delhi on 28.2.1995; delivered lectures at Academic Staff College, Aligarh Muslim University and JNU (1) ASC, AMU, Aligarh, Brahmanical Society in Early Medieval Times, 18.2.1995, JNU, Staff College, two lectures (a) Historiography of Ancient India-Recent Trends (b) Reconstructing Early Indian Social History.

70. Dilbagh Singh (CHS) "Presidential Address, Medieval Section, Punjab History Conference, Patiala, March 1995.

71. B.D. Chattopadhyaya (CHS) has been conducting in collaboration with Dr. K.K. Trivedi and Ms. Mridula Mukherjee, Refreshers Courses in History for Academic Staff College, JNU.

72. R. Champakalakshmi, (CHS) (1) Keynote address on "Urbanization in South India - Problems and Perspective" in the seminar on Urbanization in Andhra" organised by the Telgu University, Srisaillam Campus, AP in September 1994; (2) Lecture at the Academic Staff College, JNU "State Formation in Medieval South India"; (3) ICHR sponsored Reorientation course for College Teachers. organized by the Manonmaniyam Sundarani University, Tirunelveli, October 1994; Lectures on "Urbanisation in South India" and "Religion and Society in South India.
73. Balveer Arora (CPS) delivered lecture on "The Indian Constitution" at Defence Services Staff College, Wellington, July 12, 1994.
74. Zoya Hasan, "Communalism in Uttar Pradesh", Columbia University, New York, December 1993.
75. Zoya Hasan, "Communal Mobilisation and Party Politics in Uttar Pradesh", University of Michigan, December 1993.
76. Imrana Qadeer (CSMCH) delivered a lecture on "Issues in Women's Health" at Indian Society Institute, New Delhi 12 November 1994.
77. Mohan Rao (CSMCH) delivered a lecture on "National Health and Family Welfare Delivery System" at Institute of Applied Manpower Research, New Delhi, 22 November 1994.
78. A. Ahmad (CSR D) (i) delivered a lecture on "Ecology and Development I" at Academic Staff College, AMU on April 1, 1995; (ii) delivered a lecture on "Ecology and Development II" at Academic Staff College, AMU on April 2, 1995; (iii) delivered a lecture on "Indian Muslims: Facets of Under-development" at Inter-disciplinary Centre, AMU, April 15, 1995; (iv) delivered a lecture on "India: Unity in Diversity" at ASC/JNU New Delhi April 25, 1995.
79. G.K. Chadha (CSR D) (i) delivered a lecture on "New Economic Policies and the Future of Rural Industry in India" at Lal Bahadur Shastri Academy, Mussorie, June 16, 1994; (ii) delivered a lecture on "Research Methodology for Social Sciences: Some Do's and Do'nts" at Academic Staff College, JNU New Delhi, August 23, 1994; (iii) delivered a lecture on "Diversification of India's Rural Economy" at ASC, JNU on October 18, 1994; (iv) delivered a lecture on "Recent Economic Growth in China: Some Lessons for India" at ASC/JNU, December 12, 1994; (v) delivered a lecture on "Quantitative Techniques for Research in Labour Economics" at National Labour Institute, NOIDA, December 20-22, 1994; (vi) delivered a lecture on "Agricultural Growth in India: Constraints and Prospects" at ASC/JNU, March 2, 1995.
80. Kusum Chopra (CSR D) delivered a lecture on "Issues in Agricultural Development in India", ASC/JNU, February 1995.

81. Aslam Mahmood (CSRD) delivered a lecture on "Role of Small and Medium Towns in Regional Context - Linkages and Their Effect on Growth of Such Towns", TCPO, New Delhi, May 1994.
82. Ashok Mathur (CSRD) delivered a lecture on "Policy Towards Rural Industrialisation in India at MD University, Rohtak, February 1995.
83. S. Nangia (CSRD) (i) delivered a lecture on "Role of Mapping in Population Studies" at INCA, JNU, September 5, 1994; (ii) delivered a lecture on "Population Problems and Policies" at ASC/JNU, September 9, 1994; (iii) delivered a lecture on "Urban Structure of India" at Bhagat Singh College, Delhi, November 25, 1994; (iv) Delivered a lecture on "Population and the Role of Women" at UGC Headquarters, Delhi, December 14, 1994; (v) delivered a lecture on "Management of Hostels" at NIEPA, Delhi, January 24, 1995; (vi) delivered a lecture on "Population problems and Perspectives : The Indian Case" at ASC/JNU, May 4, 1995.
84. M.K. Premi (CSRD) (i) delivered a lecture on "Migration and Employment Problem at IAMR", New Delhi July 18, 1994; (ii) delivered a lecture on "Situation of Child in India" at NIPCCD, New Delhi, September 5, 1994; (iii) delivered a lecture on "Child in India: A Situational Analysis" at NIPCCD, New Delhi, January 9, 1995; (iv) delivered a lecture on "Urbanisation in India" at Calcutta University, Calcutta, February 10, 1995; (v) delivered a lecture on "Population Situation In India and the World" at NCERT, New Delhi, February 23, 1995; (vi) delivered a lecture on "A perspective on Indian Census" at ASC, MDS University, Ajmer, May 6, 1995.
85. M.H. Qureshi (CSRD) (i) delivered a lecture on "Pattern of Population Growth, Foodgrain Production and Availability of Foodgrains: A Spatio-temporal Analysis" at ASC, AMU, August 22, 1994; (ii) delivered a lecture on "Problem of Water Pollution and Water Conservation" at S.G. College, Dobhi (Jaunpur), November 19, 1994; (iii) delivered a lecture on "Forest Ecology and Potential for Development" at ASC, AMU, March 27, 1995; (iv) delivered a lecture on "Bishnoi Community and its Environmental Concensus" at CRDT, IIT, New Delhi, April 24, 1995; (v) delivered a lecture on "Problems of Hill Development : A Comparative View of Jammu and Kashmir and U.P. Himalayas" at Nainital Club, Nainital, April 29, 1995.
86. S. Raju (CSRD) (i) delivered a lecture on "Mapping the Gender Atlas" at LBS National Academy, Mussorie, May 1, 1995; (ii) delivered a lecture on "The Vitality and Creativity of the Poor as Actors in Development" at Institute for Development Research, University Amsterdam, The Netherlands.
87. Harjit Singh (CSRD) (i) delivered a lecture on "Problems of Hill Area Development" at ASC, New Delhi, February 28, 1995; (ii) delivered a lecture on "Environmental Issues and the Political Geography of Third World" at AMU, Aligarh February 14, 1995; (iii) delivered a lecture on "Ecology and Society in Higher Himalayas, AMU, February 14, 1995; (iv) delivered a lecture on "Social Organisation in A Cold Desert" at NEHU, Shillong, March 23, 1995; (v) delivered a lecture on "Ecology and

Change in the Himalayas" at NEHU, Shillong, March 25, 1995; (vi) delivered a lecture on "Environmental Constraints on Economic Development" at NEHU, Shillong, March 24, 1994; (vii) delivered a lecture on "Social Structure in High Altitude Villages of Ladakh" at NEHU, Shillong, March 24, 1995; (viii) delivered a lecture on "Environmental and Sustainable Development" at NEHU, Shillong, March 25, 1994; (ix) delivered a lecture on "GATT and Environment" at NEHU, Shillong, March 25, 1994.

88. R.K. Sharma (CSRD) (i) delivered a lecture on "Sampling Techniques in Social Science Research" at ASC/JNU, February 16, 1995; (ii) delivered a lecture on "Quantitative Techniques for Research in Labour Economics" at NLI, NOIDA, December 1994.

89. K.S. Sivasami (CSRD) (i) delivered a lecture on "Micro-level Planning" at NIC, Planning Commission, New Delhi, August 24, 1994; (ii) delivered a lecture on "Micro-level Planning: Regional Development" at NIC Planning Commission, New Delhi, September 9, 1994; (iii) delivered a lecture on "The Role of Cartography in Water Management" at Indian National Cartographic Association, Delhi Chapter, New Delhi, March 31, 1995.

90. A Vasantha (CSSP) (i) delivered a lecture on "Women in Nuclear Science" a popular lecture at the Annual Day celebration of Delhi Science Museum on 4.1.1995; (ii) delivered a Radio talk in Tamil on the book "Silent Spring" by Rachel Carson on 6.6.1994.

91. T.K. Oommen (CSSS) (i) delivered a lecture on "Global or Regional Integration: Some Reflections" at Technical University, Budapest, November 8, 1994; (ii) delivered a lecture on "Reconciling Equality and pluralism, An Agenda for Developed Societies" at Collegium, Budapest, November 10, 1994; (iii) delivered a lecture on "Caste in India today" at Indian Embassy, December 8, 1994; (iv) delivered a lecture on "Institutional Change and Social Protest: The Emerging Trends" at Hungarian Political Science Association, Budapest, December 16, 1994; (v) delivered a lecture on "Religions Pluralism in Contemporary India", Indian Embassy, February 23, 1995; (vi) delivered a lecture on "Citizenship, Nationality and Ethnicity: Emerging Identities in the European Union" at Institute of Advanced Studies, Vienna, Australia, March 7, 1995; (vii) delivered a lecture on "Constructing the Other: South Asia and West-Europe" at Institute of Sociology, Graz, Australia, March 9, 1994; (viii) delivered a lecture on "Social Transformation and Future identities in Europe" at Faculty of Social Sciences, University of Lubjiliana, Slovenia, March 10, 1995; (ix) delivered a lecture on "Globalization and Structural Change: Historicity and Implications" at Department of Sociology, University of Rome, Italy, April 3, 1995; (x) delivered a lecture on "Religious Nationalism and Democratic Polity: The Indian Experience", Centre for the Study of Social Intervention, Paris, France, May 5, 1995; (xi) delivered a lecture on "Religious Nationalism and Democratic Polity: The Indian Case" at Institute for Sociology and Antropology Friedrich- Alexander University, Nuremberg, Germany, May 9, 1995; (xii) delivered a lecture on "Religious Nationalism and Democratic Polity : The Indian Case" at Faculty of Social Science, George August University, Göttingen, Germany, May 11, 1995.

92. R.K. Jain (CSSS) (i) delivered a lecture on "Race Relations, Ethnicity, Class and Culture: A Comparison of Indians in Trinidad and Malaysia" University of Natal, South Africa, August 23, 1994; (ii) delivered a lecture on "East Indian Culture in a Caribbean Context: Crisis and Creativity" at University of Zululand, South Africa, September 1, 1994; (iii) delivered a lecture on "Cultural Pluralism : National and International" and IIT, Kanpur, April 25, 1994; (iv) delivered a lecture on "Participant Observation and Case Study Method" at Delhi University, Delhi, April 25, 1994.
93. Nandu Ram (CSSS) (i) delivered a lecture on "Aids, Religion and Society: A Discourse" at International Pavilion: Voluntary Blood Donation Forum, Allahabad, January 28, 1995; (ii) delivered a lecture on "Reservation and Development of SCs/STs" at IIPA, New Delhi, February 14, 1995.
94. Ehsanul Haq (CSSS) delivered a lecture on "Regional Dimensions of Educational Inequality in India" at ASC, Aligarh, February 1995.
95. Anand Kumar (CSSS) (i) delivered a lecture on "Role of Youth in Society" at Kendrapada College, Cuttack, January 22-23, 1995; (ii) delivered a lecture on "Women's Movements in India" at NIPCCD, New Delhi, January 28, 1995; (iii) delivered a lecture on "Mobilization of Community Resources for Women and Child Development" at NIPCCD, New Delhi, January 28, 1995; (iv) delivered a lecture on "Role of NGO's in Women and Child Development" at NIPCCD, New Delhi, March 21, 1995; (v) delivered a lecture on "Tibet and World Today" at IIPA, New Delhi.
96. Maitrayee Chaudhuri (CSSS) (i) delivered a lecture on "Conceptualising Tolerance" at Indian Social Institute, New Delhi, February 19, 1995; (ii) delivered a lecture on "The Indian Women's Movement" at Indian Social Institute, New Delhi, April 9, 1994; (iii) delivered a lecture on "Condition of Low Income Group Women" at HUDCO, New Delhi, May 25, 1994.
97. Binod Khadria (ZHCES) delivered a lecture on "Brain Drain - Counting Beyond Numbers" at Returned NRIs Association at Century Club, Bangalore, November 9, 1994.
98. Sushila Singhal, (ZHCES) Panelist on - Managerial Beliefs and Values, AIIMS Second National Management Research Workshop, October 24-28, 1994.

VISITORS TO THE UNIVERSITY

SCHOOL OF ENVIRONMENTAL SCIENCES

1. Prof. S.T.Rao, Research Professor, University of Albany, State University of New York, USA, visited SES, Jan. 27-31, 1995 under 'TOKTEN' programme of CSIR, New Delhi.

SCHOOL OF LIFE SCIENCES

2. Prof. Norio Murata, Japanese Scientist from the National Institute for Basic Biology, Okazaki, Japan, August, 1994.
3. Dr. Imre Vaas, Hungarian Scientist from Biological Research Centre of the Hungarian Academy of Sciences, Hungary, August, 1994.
4. Prof. A.R. Subramanian, Max Planck Institut für Molekular Genetik, Germany for Annual Lecture in CPMB, SLS, December 12, 1994.
5. Professor I. Tekuchi, Director, NIBB Okazaki, Science and Technology, Govt. of India, Indo-Japan (JSPS) joint programme on molecular Cellular and Stress Biology, March 14-23, 1995.
6. Prof. Norio Murata, Regulation Biology, NIBB, Okazaki, Japan - INSA Programme (two weeks).
7. Dr. Sandor Demeter, Hungary.
8. Dr. Christian, Univ. Doz, Gerald Kastberger, Institute of Biology, Neurobiology Dept. University of Graz, Austria, Nov. Dec., 1994.

CENTRE FOR BIOTECHNOLOGY

9. Dr. Mark D. Dibner, USA, 16th September 1994 (delivered lecture)
10. Dr. Arthur Grossman, Carnegie Institution, Stanford, USA, 22nd December 1994 (delivered lecture)
11. Dr. Chetan Chitnis, NIH, Bethesda, USA, 3rd January 1995 (delivered lecture).
12. Dr. S. Dasgupta, National Institute of Health, USA, 4th January 1995 (delivered lecture)

13. Dr. Debabrata Raychaudhuri, Tufts University, USA, 27th January 1995 (delivered lecture)
14. Dr. R.S. Verma, University of Indiana Polis, USA, 21st March 1995 (delivered lecture)
15. Dr. Dharani Dhar Dubey, Roswell Park Cancer Institute, N.Y., 4th May 1995 (delivered lecture)
16. French delegaion (Mr. Georges Pierron, Prof. of Electrical Engineering and Electronics), 5th September 1994.

SCHOOL OF INTERNATIONAL STUDIES

Centre for East Asian Studies

17. H.E. Mr. Cheng Ruisheng, Ambassador of the Peoples' Republic of China in India, 22 August, 1994.
18. Dr. Richard O. Wada, Chief, India Resident Office, Asian Development Bank, 9th November, 1994.
19. H.E. Mr. Yamada Chusei, Ambassador of Japan in India, 1st December, 1994.
20. Dr. S.C. Gupta, Director, ICRIER, 1st March, 1995.
21. Prof. Hirashima Shigemochi, Meiji University, Tokyo, 8th March, 1995.
22. Prof. Robert A. Scalapino, former Director, East Asian Instt. Berkeley, California, 27th March, 1995.

Centre for Soviet and East European Studies

23. Ms. Nina A. Andreeva, General Secretary, All Union Communist Party of Bolsheviks, Russia, visited the Centre on 16.3.95 and delivered a lecture on "Current Political Situation in Russia".
24. Dr. (Ms.) Margit Koves, Visiting Fellow at the Centre deputed by the Hungarian Ministry of Education and Culture for a period of one year w.e.f. December 1994, delivered a series of six lectures during the stipulated period.
25. Prof. Atila Agh, Hungary, visited the Centre on 16th March, 1995, and delivered a lecture on "East Europe and NATO".

26. Prof. Krassilchtchikov, Moscow and a Member of Russian Duma (Parliament), who were part of the delegation accompanying the well-known Russian leader of Liberal Democratic Party, Mr. Zhirinovskiy paid a visit to the Centre on 8th March, 1995, and exchanged ideas on the "Current Political Situation in Russia", with Centre Chairman and other Faculty members of the Centre.

Centre for West Asian and African Studies

27. Dr. Ahmad Mukarram, Resident Fellow, Rajiv Gandhi Foundation, New Delhi, "Fundamentalism: Thinking Anew?", 23 March 1995.

28. H.E. Ali Muhsen Hamid, Chief Representative of Arab League in India, 23 February 1995 "Multi-Party Democracy in the Arab World".

29. Dr. I. Zilberman, Hebrew University, Jerusalem, Israel, "Islam in Palestinian Society", 20 February 1995.

30. Prof. Saad Eddin Ibrahim of American University of Cairo Studies, Cairo, Egypt, "West Asia and the New World Order", 3 February 1995.

31. Dr. Imad El-Horani, Counsellor and Mr. Khalid Haidabi, Second Secretary, Embassy of the State of Palestine, "A Year After PLO-Israeli Peace Accord : Assessment and Prospects", 15 September 1994.

32. Prof. Richard J. Kozicki, University of San Francisco, "India's Policy Towards West Asia and North Africa", 2 February 1995.

33. Mr. Ebrahim Ismail Ebrahim, Member of Parliament, South Africa, "Current Situation in South Africa", 30 September 1994.

34. Mr. Ramon Hernandez - Cuban Foreign Policy Expert, Havana, "Present Crisis in Cuba", 21 September 1994.

35. Prof. Raphael Israeli of Hebrew University, Jerusalem, "Islamic Factor in West Asia Peace Process", 15 February 1995.

Visitors to School

36. H.E. Nicholas Bridge, High Commissioner of New Zealand, 1st September, 1994.

37. H.E. Darren Gribble, High Commissioner of Australia, 29th September, 1994.

38. H.E. Lam Peck Heng, High Commissioner of Singapore, 17th November, 1994.

39. H.E. Chussi Yamada, Ambassador of Japan, 1st December, 1994.

40. Prof. Peter North, Vice-Vhancellor, Oxford University, London, 16th December, 1994.
41. Prof. James Blight, 10th January, 1995.
42. Prof. Jaivet Lang, 10th January, 1995.
43. Prof. Frank Uon Hippel, 13st January, 1995.
44. Prof. Lawreneo Schainman, 13st January, 1995.
45. Prof. Caroune Russell, 18th January, 1995.
46. H.E. Mrs. Olega Chamero Trias, Cuban Ambassador, 24th March, 1994.
47. Prof. Robert A. Scalatino, Inst. of East Asian Studies, University of California, Berkeley, 27th March, 1995.
48. I.J. Singh, Lead Economist, World Bank, 10th April, 1995.

SCHOOL OF LANGUAGES

Centre for African & Asian Languages

49. Dr. Faut Ali Bilkan, Asstt.Prof.Gazi University, Ankara was granted research affiliation with the Centre for a period of two semesters w.e.f. 22.7.94.
50. Shri Anwar Salam, Jamia Millia Islamia delivered the lectures to the students of Arabic and Egypt. in October 1994.
51. Prof. (Ms.) Siddigheh, Prof. of Persian, Tehran University, Tehran (Iran) visited the Centre for reciting her poetry on 31.3.95.

Centre of French Studies

52. Prof. Lederer, Director ESIT conducted a seminar on Consecutive/Simultaneous Interpretation at CFS/JNU between Novem ber/December 1994.
53. Prof. Jean-Jacques Magraner visited the Centre of French Studies and had discussions with the faculty of the School of Languages in connection with the designing of a course of Post-Graduate Diploma in European Studies, in April 1995.

Centre of German Studies

54. Prof. Dieter Riemenschneider, University of Frankfurt, Germany 14.9.94. "Indo-English Novel and Eastern and Western Poeticis."

55. Mrs. Ursula Mueller Speiser, Ursula-Mueller Speiser Verlag, Austria, 19.9.94. presented some books from her Publishing House.
56. Dr. Manfred Stassen, the new Director of German Academic Exchange Service, New Delhi, 17.1.95. Courtesy visit on taking up new assignment.
57. Mr. Ujjawal Bhattacharya, 1.2.95, presented his translations into Hindi of 10 Brecht Poems.
58. Prof. G. Helbig Leipzig, Germany. 13.2.95. "Sprachwissenschaft und Freundsprachenunterricht."
59. Dr. Taddes Pfeiffer, an eminent Swiss German Writer. 20.2.95 Read from his Works.
60. Prof. Josef Winkler, an Austrian Writer. 6.3.95 Read from his works and discussed questions of Contemporary Austrian Literature.

Centre of Indian Languages

61. Dr. Rupert Snell, Head Department of South Asia, School of Oriental and African Studies, University of London visited the Centre on 7.4.95

Centre of Linguistics & English

62. Ms. Rama Pandit, ENT, AIIMS, visited the Centre on 8.9.94
63. Prof. Arindam Chakravarty, Dept. of Philosophy, Delhi University, visited the Centre on 29.9.94.
64. Dr. Sudeep Sen, paid a visit to the Centre on 16.9.94.
65. Prof. Ruth L. Schmidt, University of California, visited the Centre on 22.9.94 to deliver a series of six lectures.
66. Dr. Madam Gopal Singh, visited Centre on 17.11.94, 18.11.94 and 19.11.94.
67. Dr. Vijay Lakshmi Basavraj, Dept. of Otolaryngology, AIIMS, visited Centre on 4.11.94.
68. Dr. Carlo Coen, Cultural Attache, Italian Embassy, visited Centre on 24.11.94.
69. Gaia Servadio & Paolo Bertinetti, (Italian Scholars) visited Centre on 17.1.95.
70. Dr. K.K. Bharadwaj, visited Centre on 21.2.95.

71. Dr. Madangopal Singh, visited Centre (February-April), 1995.
72. Prof. Indranath Chaudhuri, Secretary, Sahitya Academy, visited Centre on 23.3.95.
73. Prof. Claus Peter Zollar, University of Heidelberg, Germany, visited Centre on 27.3.95.
74. Prof. Subhash C. Bhatnagar, Marquette University, USA visited Centre to deliver lectures on 7.4.94, 21.4.95 and 27.4.95.
75. Dr. Makaranda Pranjape, IIT, Delhi, visited Centre on 20.4.95.
76. Dr. Erich Pederson, Max Planck Institute of Psycholinguistic, Netherlands visited Centre on 17.1.95.

Centre of Russian Studies

77. Prof. Azad N. Shamatov, Tashkent State Institute of Oriental Studies. Uzbekistan Jan.1995. A talk on 'Higher Education in Uzbekistan'
78. Mrs. Elena G. Frolova, Russian Language Institute, Russian Centre of Science & Culture. New Delhi, Feb.1995. A talk 'Some Aspects of Methods of Teaching Russian' (in Russian).
79. Mr. Olzhas Suleimenov, Kazakh Poet, Kazakhstan Feb.1995. A talk on 'Kazak National Poet Abai'.

Centre of Spanish Studies

80. Prof. Gonzal L. Nadal, Univ. of Baleares, Spain, January 12, 1995.
81. Prof. Tejwant Singh Gill, Guru Nanak Dev University. Amritsar, Feb.20, 1995.(Delivered Annual Antonio Binimelis Lecture).
82. Prof. Luisa Valenzuela, Argentina, 14th March, 1995.
83. Dr. Soledad Puertolas, Spain, April 13, 1995.

Group of Philosophy

84. Dr. Ranjan Ghosh, Research Scientist, Department of Philosophy, Delhi University. "Some Reflections on Art and Life. 28.9.94.
85. Prof. Akil Billgramme, Department of Philosophy, Columbia, University, U.S.A. "Self-Knowledge and Freedom". 25.10.94.

86. Bishop Dr. Paulos Mar Gregorios Formerly President, World Council of Churches, New Delhi, "Rationalism and Enlightenment" 3.2.95.
87. Dr. Paulos Mar Gregorios "Socialism and its Future", 8.2.95.
88. Prof. S.P. Banerjee, Department of Philosophy, Calcutta University, "Metaphysics of Aristotle and Kant", 22.2.95.
89. Prof. T.S. Devadoss, Director, Radhakrishnan Institute of Advanced Studies, Madras "Gandhi and the Contemporary World" 24.2.95.
90. Dr. Jaya Mehta, Advanced Study Institute, Shimla, "Socialism: A Philosophy" 8.3.95.
91. Prof. Sujata Miri, Philosophy Department, NEHU, Shillong, "Tribal World - View and Religion" 15.3.95.
92. Dr. Venu Gopal, Department of Philosophy, Poona University. "Some Reflections on Foucault's Philosophy", 30.3.95.
93. Dr. Paulos Mar Gregorios, "Postmodernism" 19.4.95.

SCHOOL OF SOCIAL SCIENCES

Centre for Economics Studies and Planning

94. Dr. Michael Zweig of State University of New York at Stonybrook, gave three lectures on the political economy of US capitalism (CESP).
95. Professor Bertram Schefold of Johann Wolfgang Goethe Universitat, Frankfurt-am-Main, Germany, gave not only the Krishna Bharadwaj Memorial Lecture on "The Creation of Economic Theory and the History of Economic Thought", but also a seminar on "The Relevance of the Capital Controversy to Recent Developments of Models of Intertemporal Equilibrium and of Overlapping Generations" (CESP).
96. Professor Jean Marc Fontaine of the Institute of Development Studies, Pantheon, Sorbonne University, Paris gave three lectures on topics as varied as Structural Adjustment in Sub-Saharan Africa and Problems of Income Distribution and International Trade (CESP).
97. In addition to these visiting fellows, there were a number of casual visitors to the Centre who gave seminars in the Tuesday slots. These included Professor Pramit Chaudhuri of University of Sussex, Professor S. Hirashima of Institute of Developing Economics, Tokyo, Professor Heidrich from Germany and Dr. Shankar Subramaniam of Cornell University (CESP).

Centre for Political Studies

98. Mr. Sudip Banerjee, Director General, National Literary Mission, India, visited and presented a seminar in the Centre on 21st September 1994.
99. Professor Akeel Bilgrami, University of Columbia, USA visited the Centre on 28th September 1994.
100. Mike Marquese, Novelist and Critic, UK, presented a Seminar in the Centre on 24 October 1994.
101. Professor Nobuko Nagasaki, University of Tokyo, gave a Seminar in the Centre on 16 November 1994.
102. Professor Igancy Sachs, University of Sorbonne, France, visited the Centre on 15 December 1994.
103. Professor Mahmood Mamdani, Uganda, presented a Seminar on 22 March 1995 in the Centre.
104. Mr. D.S. Bagga, Deputy Election Commissioner, India, presented a Seminar on 19th April 1995 in the Centre.
105. Professor Richard Wifield, University of Georgia, USA, presented a Seminar in the Centre on 7 August 1995.

Centre of Social Medicine and Community Health

106. Dr Dipankar Gupta, Department of Sociology, Delhi University, gave a lecture on 26.10.1994
107. Dr. C. Sathyamala, Editor, MFC Bulletin, gave a lecture on 27.10.1994.
108. Prof. Patricia Uberoi, Department of Sociology, Delhi University, gave a lecture on 17.11.1994.
109. Mr. Indra P. Kambo, Assistant Director, ICMR, New Delhi, gave a lecture on 15.2.1995.
110. Dr. Neera Chandok, Department of Political Science, Delhi University, gave lectures on 23.2.1995 and 16.3.1995.
111. Dr. Shiv Kumar, Consultant, UNICEF, gave a lecture on 2.3.1995.

112. Dr. Irfan Habib, NISTADS, gave a lecture on 9.3.1995.

113. Prof. Jean Dreze, Delhi University, gave a lecture on 30.3.1995.

Centre for the Study of Regional Development

114. Crown Prince D. Bir Bikram, Nepali Scholar interested in GIS Developments, visited Centre on 31 August 1994.

Centre for the Study of Social Systems

115. Prof. Riyaz Punjabi, Professor of Sociology, Kashmir University, Srinagar, Jammu and Kashmir, April 1991 to April 1996.

116. Prof. Beatrice Kachuck, City University of New York, New York, USA, visited on 5 September 1994.

Zakir Husain Centre for Educational Studies

117. Prof. Prayag Mehta, ex-Dean, National Labour Institute gave lecture on "Human Development under new Economic Policy" on 14.9.94.

118. Professor G.L. Adhya gave lecture on "Curriculum and Text-books in Schools" on 28.9.1994.

119. Mrs. Farida Vahidi of Spiritual Assembly of the Bahai's on "Education for Peace" on 21.10.1994.

CONFERENCES/SEMINARS

ORGANIZED BY THE SCHOOLS/CENTRES

SCHOOL OF ENVIRONMENTAL SCIENCES

1. "Environmental Impact Assessment of Thermal Power Plants" March 20-24, 1995. Ministry of Environment & Forests. GOI. (B. Padmanabhamurty).
2. "Refresher Course in Environmental Sciences" Sept.26 - Oct.21, 1994. Academic Staff College, JNU (B. Padmanabhamurty).
3. Science and Technology and Sustainable Rural Development, August 5, 1994 (P.S. Ramakrishnan).
4. 'Biodiversity: Genes to Ecosystem-Towards Sustainable Management'. As part of the Diamond Jubille Celebrations of INSA, 11 - 12 January, 1995 (P.S. Ramakrishnan).
5. "Aerosol Studies at B.A.R.C", 7 July 1994, Prof.P.V.N.Nair, BARC, Bombay
6. "A step towards developing transgenic plants with high nutritional quality", 27 July 1994, Prof. Asis Datta, JNU.
7. "Fiscal policies in environmental protection", 5 August 1994, Dr. D.N. Rao, JNU.
8. "Telemetry for environmental geology and global health", 28 September 1994, Dr. Earl W. Fergusson, NASA, USA.
9. "Industry and environmental management", 16 November 1994, Dr. Heinz Bongartz, New Delhi
10. "Soil processes in tropical and temperate climates - influences on metal geochemistry", 17 November 1994, Dr. John Maskall, Imperial College of Science and Technology, London.
11. "Contaminated land - what can be learnt from post-depositional? 22 November 1994, Dr. John Maskall, Imperial College of Science and Technology, London.
12. "Long-term migration of metals under historical melting sites", 23 November 1994, Dr. John Maskall, Imperial College of Science and Technology, London.
13. "Geochemistry and wild life nutrition", 24 November 1994, Dr. John Maskall, Imperial College of Science and Technology, London.

14. "Signalling mechanism in early limb development", 25 November 1994, Dr. D.A. Ede, University of Glasgow, UK.

15. "Plant as palaeoclimate indicators: New development", 27 January 1995, Prof. Robert Andrew Spicer

16. "Trade and environment: A northerner's point of view", 20 April 1995, Dr. Larry Williams, Sierra Club

SCHOOL OF LIFE SCIENCES

17. "Training course on cloning characterization and sequencing of plant genes - sponsored by DBT December 8-28, 1994. (K.C. Upadhyaya)

SCHOOL OF PHYSICAL SCIENCES

18. "Training course on cloning characterization and sequencing of plant genes - sponsored by DBT December 8-28, 1994. (K.C. Upadhyaya)

CENTRE FOR BIOTECHNOLOGY

19. "The U.S. Biotechnology Industry : where did it come from and where is it going"?, 16th September 1994, CBT.

20. "Adaptation to nutrient limitation and high light : *Chlamydomonas* as a model organism", 22nd December 1995, CBT.

21. "Molecular interactions during erythrocyte invasion by plasmodium", 3rd January 1995, CBT.

22. "Regulation of Gene expression by ribonuclease III", 4th January 1995, CBT.

23. "Is F to Z the primordial cytoskeletal protein essential for bacterial cell division", 27th January 1995, CBT.

24. "Molecular cloning and characterization of fluid binding proteins", 21st March 1995, CBT.

25. "Eukaryotic DNA replication origin", 4th May 1995, CBT.

SCHOOL OF INTERNATIONAL STUDIES

Pt. Hridaynath Kunzru Memorial Lectures

26. "United Nations in the Changing World", 24th February, 1995. (P.N. Haksar)

27. "The New World Order and the United Nations", 28th February, 1995. (K.M. Chenoy)
28. "India and the United Nations", 1st March, 1995. (Satish Kumar)
29. "United States' Foreign Policy in the post-Cold War Years, 2nd March, 1995. (R.P.Kaushik)
30. "Human Rights : Rich Standards have Poor Compliance", 6th March, 1995. (Y.K. Tyagi)
31. "Reforming the United Nations : Issues and Implications", 7th March, 1995. (C.S.R. Murthy)
32. "The United Nations and International Terrorism", 8th March, 1995. (V.S. Mani)
33. "United Nation's Peace Keeping Operations in Africa", 9th March, 1995. (Anirudha Gupta)
34. "Japan's Search for a Global Role and the United Nations", 10th March, 1995. (Lalima Varma)
35. "Specialized Agencies (Economic) and the New World Order", 13th March, 1995. (Sumitra Chishti)
36. "United Nations and the Kashmir Problem", 14th March, 1995. (Uma Singh)
37. "UNCTAD and Regional Co-operation", 15th March, 1995. (M.P. Lama)
38. "Germany and the United Nations in the Post Cold War Period", 16th March, 1995. (R.K. Jain)
39. "Bosnia-Herzegovina and United Nation's Peace keeping", 20th March, 1995. (Anuradha Chenoy)
40. "Japan's Role in the United Nations's Peace Keeping Operations", 21st March, 1995. (K.V. Kesavan)
41. "Sanctions against Iraq: A Critique", 22nd March, 1995. (Gulshan Dietl)
42. "United Nations, United States and the two Koreas : Changing Equations", 23rd, March, 1995. (R.R. Krishnan)
43. "International Environmental Agreements : Role of Developing Countries", 24th March, 1995. (Bharat Desai)

44. "Libya and United Nations Economic Sanctions", 27th March, 1995. (A.K. Pasha)
45. "China and the United Nations : The Emergent State and World Order", 28.3.1995 (Madhu Bhalla)
46. "United Nations and the Asia Pacific Region", 29th March, 1995. (Parimal Kumar Das)
47. "United Nations and the Development of Space Law and the New World Order", 30th March, 1995. (S. Bhatt)
48. "India and South Asia : The Changing World Order", 31st March, 1995. (Nancy Jetly)
49. "Indo-Latin America Relations in the Changing World", 3rd April, 1995. (Abdul Nafey).
50. "Role of United Nations in the Unification of Cyprus", 4th April, 1995. (Ashwini Mohapatra)
51. "Confidence Building Measures in Indo Pak Relations", May 1994, CIPOD/SIS, by Dr. Michael Krepon, Henry M. Stimson Centre, Washington, D.C.
52. "Negotiations in Theory and Practice : Some Lessons from the Israeli-Arab Interaction", 3rd August 1994, CIPOD/SIS, by Prof. M.L. Sondhi.
53. "Politics of Climatic Change and the Developing Countries", 18th August, 1994, CIPOD/SIS, by Dr. Kirk Smith, East-West Centre, Hawaii, USA.
54. "India's Position in the World", 20th September, 1994, CIPOD/SIS, by Shri A.P. Venkateswaran, Former Foreign Secretary and now Professor at Centre for Policy Research, New Delhi.
55. "Restructuring Brettonwoods Institutions", 25th October and 1st November, 1994, CIPOD/SIS, by Prof. Muchkund Dubey.
56. "The Cuban Missile Crisis", 10th January, 1995; CIPOD/SIS, by Dr. James Blight, Senior Research Fellow, Watson Institute, Brown University, USA, Dr. Janet Lang of Boston University and David Welch of Toronte University.
57. "International Safeguards and Excess Fissile Material Stockpiles", 13th January, 1995, CIPOD/SIS, by Prof. Lawrence Scheinmen of Arms Control and Disarmament Agency (USA) and Prof. Frank Von Hippel of Science and Technology Policy (White House).

58. "Impressions of U.S. Policy-Making Processes on Weapons and Non-proliferation in South Asia", 27th January, 1995, CIPOD/SIS, by Air Vice-Marshal (Retd.) Samir Kumar Sen, Visiting Professor of American Universities.
59. "Geopolitics of Peace and Conflict Management : A Case Study of the Middle East Peace Process" 2nd March, 1995, CIPOD/SIS, by Ambassador Yoan Biran, Dy. Director General Ministry of Foreign Affairs, Israel.
60. "Turkish Legacy in Central Asia", 30th March, 1995, CIPOD/SIS, by Prof. Mihai Maxim, an expert on Turkish History and Culture.
61. "The Role of Negotiation in resolving India-China Questions", 12th April, 1995, CIPOD/SIS, by Ambassador C.V. Ranganathan (Retd.).
62. "International Conference of Mongolist", Feb. 20-24, 1995, CIPOD/SIS, R.C. Sharma.
63. "U.N.-Cyprus Conflict and Management", March 21-22, 1995, CIPOD/SIS, R.C. Sharma.
64. Hridayanath Kunzru Memorial Lectures (Coordinator : Lalima Varma, CEAS) A series of 25 lectures delivered by faculty members of SIS. For details, please see Appendix-V.
65. "China's Present Foreign Policy", 22nd August, 1994, CEAS, Lalima Varma.
66. "Japan's Role in the Asian Development Bank", 9th November, 1994, Lalima Varma (CEAS).
67. "Japan and the Asia Pacific", 1st December, 1994, Lalima Varma (CEAS).
68. "Some Aspects of the Special Economic Zones in China", 1st March, 1995, Lalima Varma (CEAS).
69. "Issues in the Agricultural Development of Japan", 8th March, 1995, Lalima Varma (CEAS).
70. "How East Asia Looks at the Twenty First Century", 27th March, 1995, Lalima Varma (CEAS).
71. "Indonesia in Nineties : Political, Social and Economics", 24th January, 1995, CSCSEA&SWPS, Prof. Baladas Ghoshal.
72. "Solutions to Ethnic Conflicts", CSCSEA&SWPS, Dr. Dawa Norbu.
73. "Role of Culture in Economic Development", CSCSEA&SWPS, Dr. Dawa Norbu.

74. "Indo-Hungarian Round Table Conference on "Experiences of India and Hungary : Reform and Liberalisation of their Economies", March 7-8, 1995, CSEES/SIS, JNU.
75. "Indo-German Seminar on "Central Asia in the Changing World Order : Trends and Development", March 22-23, 1995, CSEES, JNU.
76. "Iraq in the Nineties : Challenges and Prospects" 8 November 1994, Gulf Studies Programme, CWAAS.

SCHOOL OF LANGUAGES

Centre for African & Asian Languages

77. A Round Table (discussion) Conference on Tunisia was arranged in collaboration with CFS/SL, JNU on 9.11.94.
78. A Week long Film Festival of Iranian Films was organised by the Centre from 6.3.95 onwards.
79. A National Seminar was organised by the Centre entitled "Tradition and Modernity: Society Culture and Language in Meghreb Region" on 17-18 April, 1995 in collaboration with Centre of French Studies, School of Languages and Centre of West Asian & African Studies, SIS.

Centre of German Studies

80. "Germany: The 1994 Elections and After" 24.11.1994 at SIS, JNU in collaboration with the West European Studies Division, School of International Studies.
81. "Central European Exile in India," 15-16 March 1995, (Director Prof. Anil Bhatti).

Centre for Indian Languages

82. "The situation of Literature in Contemporary Cultural Process" 19th November, 1994.

Centre for Japanese & North-East Asian Languages

83. "First Conference of the Indian Congress of Asian and Pacific Studies", 27-29 January 1995, organised by CJNEAL in collaboration with ICAPS.

Centre of Spanish Studies

84. III International Conference on "Hispanism and Ibero-American Studies", 21-24, February, 1995, CSS-ICCR-IIC.

85. "International Seminar on Fernando Peassoa", 4-6, April, 1995, CSS-Cultural Centre, Portuguese Embassy.

SCHOOL OF SOCIAL SCIENCES

Centre for Economic Studies and Planning

86. Krishna Bharadwaj Memorial lecture by Professor Bertram Schefold on The Creation of Economic Theories and the History of Economic Thought: Reflection on the Work of Krishna Bharadwaj, on 8 March 1995.

Centre of Social Medicine and Community Health

87. A National Consultation Meeting on "The New Strategy for Tuberculosis Control", 17th August 1994.
88. 1st National Seminar under the Silver Jubilee celebrations on "World Development Report 1993: Investment in Health - Implications for Health and Family Welfare in India" 8th and 9th December 1994.

Centre for the Studies in Science Policy

89. "Software Export Policy", May 26-27, 1994.

Centre for the Study of Social Systems

90. "XXI All India Sociological Conference" 19-21 December, 1994.
91. "Culture and Nation Building in India", DSA Programme, JNU New Delhi, 25-27 March 1995.

APPENDIX-

NAMES OF FACULTY MEMBERS

(AS ON 12.5.1995)

Professors1**Associate Professors**2**Assistant Professors**3**1. SCHOOL OF COMPUTER AND SYSTEMS SCIENCES**

1. N.P. Mukherjee
2. K.K. Nambiar
3. Karmeshu
4. B.S. Khurana
5. R.G. Gupta
6. K.K. Bhardwaj
7. P.C. Saxena
8. G.V. Singh

1. C.P. Katti
2. Subhash Bhalla
3. S. Balasundaram
4. R.C. Phoha
5. P. Dublish*

1. Renu Varshneya(Ms.)
2. C.P.C. Nath**
3. Sanjay Madan
4. Sonajharia Mirz
5. S.K. Bose

J.N. Kapoor (Hony. Prof.)

2. SCHOOL OF ENVIRONMENTAL SCIENCES

1. P.S. Ramakrishnan
2. V. Subramanian
3. V. Asthana
4. L.K. Pande
5. C.K. Varshney
6. B.Padmanabhanmurthy
7. V. Rajamani
8. J. Subba Rao
9. Kasturi Datta(Ms.)
- 10.D.K. Banerjee
- 11.Jitendra Behari

1. A.K. Bhattacharya
2. V.K. Jain
3. G.P. Malik
4. Brij Gopal
5. J.D. Sharma(Ms.)
6. R. Subramanian
7. S.I. Hasnain

1. Arun K. Attri
2. Sudha Bhattacharya(Ms.)
3. S. Mukherjee
4. Pandit Sudan Khilare

3. SCHOOL OF INTERNATIONAL STUDIES**Centre for American and West European Studies**

1. B.K. Shrivastava
2. R. Narayanan
3. H.S. Chopra
4. R.P. Kaushik

1. B. Vivekanandan
2. C.S. Raj
3. R.K. Jain

1. Abdul Nafey
2. K.P. Vijayalakshmi(Ms.)

*Resigned w.e.f. 01.03.1995

**Resigned w.e.f. 31.03.1995

Professors**1****Associate Professors****2****Assistant Professors****3****Centre for Studies in Diplomacy, International Law and Economics**

1. R.P. Anand
2. Ashok Guha
3. Satish Kumar
4. Rahmatullah Khan
5. S.K. Das
6. V.S. Mani
7. Manmohan Agarwal

1. P.K. Pant
2. K.D. Kapoor
3. Y.K. Tyagi
4. Manoj Pant
5. B.S. Chimni
6. Alokesh Barua

1. V.K.H. Jambholkar
2. Bharat Desai

Centre for East Asian Studies

1. P.A.N. Murthy
2. K.V. Kesavan
3. G.P. Deshpande

1. R.R. Krishnan
2. Lalima Varma (Ms.)

1. H.S. Prabhakar
2. Madhu Bhalla
3. Alka Acharya

Centre for International Politics, Organization and Disarmament

1. M.Zuberi
(Sr. Fellow)
2. R.C. Sharma
3. Sumitra Chishti(Ms)
4. Surjit Singh Mann
(Sr. Fellow)

1. Sushil Kumar
2. K.S. Jawatkar
3. K.P. Bajpai
4. Amitabh Matta

1. C.S.R. Murthy

Centre for Soviet and East European Studies

1. Zafar Imam
2. Devendra Kaushik
3. R.R. Sharma
4. Arvind Vyas

1. Shashi Kant Jha
2. Nirmala M. Joshi(Ms.)
3. Shams-Ud-Din
4. Anuradha Mitra Chenoy(Ms.)
5. Tulsi Ram
6. A.K. Patnaik

1. Tahir Asghar

Centre for South, Central, South-East Asian and South-West Pacific Studies

1. P.K. Das
2. I.N. Mukherjee
3. S.D. Muni
4. Kalim Bahadur
5. Muchkund Dubey
6. B.D. Ghoshal

1. B.D. Arora
2. Nancy Jetley(Ms.)
3. Dawa Thubkhey Norbu
4. Kulbhushan Warikoo
5. M.P. Lama
6. Uma Singh
7. Ganganath Jha

1. S.R. Chakraborty

Professors**1****Associate Professors****2****Assistant Professors****3****Centre for West Asian and African Studies**

1. Anirudha Gupta
2. K.R. Singh
3. Mohd. Sadiq
4. V.P. Gupta
5. A.H.H. Abidi

1. Gulshan Dietl(Ms.)
2. G.C. Pant
3. A.K. Pasha

1. Mohsin Usmani
2. P.C. Jain
3. Ashwani Kumar Mohapatra

M.A. Programme in SIS

1. O.P. Bakshi

1. Kamal A. Mitra Chenoy

4. SCHOOL OF LANGUAGES**Centre for African and Asian Languages**

1. Abdul Wadud Azhar
2. S.J. Havewalla(Ms.)
3. M. Alam

1. C.D. Paliwal
2. Abdul Haq
3. Syed Anisur Rehman
4. Faizanullah Farooqi
5. Z.S. Qasmi(Ms.)
6. S.H. Amantullah

1. A. Basheer Ahmad
2. Syed Ainul Hasan
3. Akhtar Mahdi

Centre for Japanese and East Asian Studies

1. S.B. Verma

1. P.K. Motwani
2. R. Tomar

1. Neera Kongari (Ms.)
2. Sushma Jain (Ms.)
3. Mahua Bhattacharya (Ms.)
4. Anita Khanna(Ms.)
5. Manjushree Chauhan (Ms.)
6. P.A. George

Centre for Chinese and South East Asian Studies

1. H.P. Ray
2. S.K. Yap Rahman (Ms.)

1. Manik Lal Bhattacharya
2. Priyadarshi Mukherji
3. Hemant Adlakha
4. Devendra Rawat
5. Sabree Mitra (Ms.)

Professors

1

Associate Professors

2

Assistant Professors

3

Centre of Linguistics and English

1. H.S. Gill
2. Meenakshi Mukherjee
(Ms.)

1. Kapil Kapoor
2. H.C. Narang
3. Anvita Abbi(Ms.)
4. Raghubir Saran Gupta
5. Vaishna Narang(Ms.)
6. S.K. Sareen
7. Ania Loomba (Ms.)

1. G.V. Prasad
2. Franson D. Manjali

Centre of French Studies

1. A.M. Kunte (Ms.)

1. C. Krishna Murthy
2. R. Borges
3. Rita D. Sil (Ms.)
4. K. Madavane
5. Nandini Sen(Ms.)
6. Shantha Ramakrishna(Ms.)
7. G.D. Sivam

1. Pratap Sen Gupta
2. Kiran Chaudhry(Ms.)
3. N. Kamala
4. Abhijit Karkun
5. Vijaya Lakshmi Rao(Ms.)

Centre of German Studies

1. Pramod Talgeri
2. Anil Bhatti

1. R.P. Jain
2. B.G. Chakravorty
3. S.P. Jain
4. S.B. Sasalatti
5. Rekha Vaidyarajan(Ms.)
6. Rajendra Dingle

1. R.C. Gupta
2. Chitra Harshwardhan(Ms.)
3. Madhu Sahni (Ms.)

Centre of Indian Languages

1. S.R. Kidwai
2. K.N. Singh
3. Manager Pandey
4. S.M. Abbas Sharib

1. S.P. Sudhesh
2. N.A. Khan
3. Mohd. Aslam Parvez
4. Ashfaq M. Khan

1. Vir Bharat Talwar
2. Purshottam Agarwal

Professors

1

Associate Professors

2

Assistant Professors

3

Centre of Russian Studies

1. R.S. Bagga
2. K.S. Dhingra
3. K.P.S. Unny
4. H.C. Pande
5. Y.C. Bhatnagar

1. Varyam Singh
2. Kalpana Khosla(Ms.)
3. Chinta Balupuri(Ms.)
4. Shankar Basu
5. Ramadhikari Kumar
6. A.K. Basu
7. R.N. Menon
8. S.C. Mittal

1. Manu Mittal (Ms.)
2. Charanjit Singh
3. Nasar Shakeel Roomi
4. Ritoo Malati Jerath(Ms.)

Centre of Spanish Studies

1. Vasant G. Gadre
2. S. Dey

1. S.P. Ganguli
2. Madan Lal

1. Aparajit Chattopadhyaya
2. A.K. Dhingra
3. Nasreen Chakravarty(Ms.)
4. Minu Bakshi(Ms.)

Group of Philosophy

1. Suman Gupta (Ms.)

5. SCHOOL OF LIFE SCIENCES

1. P.C. Kesavan
2. G.S. Singhal
3. Asis Datta
4. Sipra Guha-Mukherjee(Ms.)
5. P.K. Mohanty
6. S.K. Sopory
7. Rameshwar Singh
8. Rajendra Prasad
9. Mohd. Habibulla
10. Najma Zaheer Baquer(Ms.)
11. A. Ramesha Rao
12. Jaweed Ashraf
13. A.K. Varma
14. Shobha Goyle(Ms.)
15. K.C. Upadhyaya
16. Samar Chatterjee
17. Rajiv K. Saxena
18. Alok Bhattacharya

1. Sudha Mahajan(Ms.)
2. R.N.K. Bamezai
3. R.K. Kale
4. R. Madhubala (Ms.)
5. P.K. Yadav
6. Neera B. Sarin
7. B.N. Mallick
8. B.C. Tripathy

1. P.C. Rath

Professors1**Associate Professors**2**Assistant Professors**3**6. SCHOOL OF PHYSICAL SCIENCES**

1. S.K. Dattagupta
2. Deepak Kumar
3. R. Ramaswamy
4. R. Rajaraman

1. Akhilesh Pandey
2. A.K. Rastogi
3. Himadri B. Bohidar
4. Sanjay Puri

1. S.K. Sarkar
2. Rupamanjari Ghosh
3. S.S.N. Murthy
4. Prasenjit Sen
5. Shankar Prasad Das

7. SCHOOL OF SOCIAL SCIENCES**Centre for Economic Studies and Planning**

1. Anjan Mukherjee
2. Utsa Patnaik(Ms.)
3. Prabhat Patnaik
4. Sunanda Sen(Ms.)
5. Sheila Bhalla(Ms.)
6. Ramprasad Sen Gupta
7. Deepak Nayyar
8. S.K. Jain
9. D.N. Rao, Sr Fellow
10. Amit Bhaduri

1. Abhijit Sen
2. C.P. Chandrasekhar
3. Arun Kumar
4. A.N. Bhat
5. Jayati Ghosh(Ms.)
6. P.K. Chaudhury

Centre for Historical Studies

1. S. Bhattacharya
2. Suvira Jaiswal(Ms.)
3. Harbans Mukhia
4. K.N. Panikkar
5. R. Champakalakshmi
(Ms.)
6. Satish Saberwal
7. B.D. Chattopadhyay
8. M.K. Palat
9. Muzaffar Alam
10. Dilbagh Singh
11. S.F. Ratnagar

1. M.H. Siddiqui
2. R.N. Verma
3. K. Meenakshi(Ms.)
4. Mridula Mukherjee(Ms.)
5. Aditya Mukherjee
6. Neeladri Bhattacharya
7. K.K. Trivedi
8. Kunal Chakravarti
9. Yogesh Sharma
10. Rajat Datta

1. Bhagwan Singh Josh
2. Indivar Kamtekar

Professors**1****Associate Professors****2****Assistant Professors****3****Centre for the Study of Regional Development**

1. Aijazuddin Ahmad
2. M.K. Premi
3. A.K. Mathur
4. Kusum Chopra(Ms.)
5. G.K. Chadha
6. A. Kundu
7. K.S. Sivasami
8. A.H. Kidwai(Ms.)
9. S.K. Nangia(Ms.)
10. M.H. Qureshi
11. Harjit Singh

1. S.K. Thorat
2. Aslam Mahmood
3. Sanjay K. Chandra
4. Murali Dhar Vemuri
5. R.K. Sharma
6. Saraswati Raju

1. Sachidanand Sinha
2. M. Satish Kumar
3. Naresh Kumar

Manmohan Singh (Hony. Professor)**Centre for Political Studies**

1. C.P. Bhambhri
2. Aswini K. Ray
3. S.N. Jha
4. Kuldeep Mathur
5. Balveer Arora

1. Imtiaz Ahmad
2. Kiran Saxena(Ms.)
3. Zoya Hasan (Ms.)
4. R.K. Gupta
5. Sudha Pai (Fellow)
6. Rajiv Bhargava

1. Niraja Gopal (Ms.)
2. Gurpreet Mahajan(Ms.)
3. D. Bhattacharya
4. B.N. Mohapatra

Centre for Studies in Science Policy

1. M.L. Sondhi

1. A. Vasantha (Ms.)

Centre of Social Medicine and Community Health

1. Imrana Qadeer
2. S.K. Sahu

1. Prabha
Ramalingaswami(Ms.)

1. K. Rajesekharan Nayar
2. Mohan Rao
3. Ritu Priya Mehrotra(Ms.)
4. Rama Baru

Professors

 1

Associate Professors

 2

Assistant Professors

 3

Centre for the Study of Social Systems

1. Yogendra Singh
2. T.K. Oommen
3. R.K. Jain
4. K.L. Sharma
5. M.N. Panini
6. C.N. Venugopal
7. Dipankar Gupta
8. J.S. Gandhi

1. Nandu Ram
2. Ehsanul Haq
3. Anand Kumar

1. Tiplut Nongbri(Ms.)
2. Maitrayee Chaudhuri
3. Avijit Pathak

Zakir Husain Centre for Educational Studies

1. S.C. Ghosh
2. Karuna Chanana (Ms.)
3. Sushila Singhal(Ms.)

1. B.K. Khadria

1. Geetha Bhawani Singh(Ms.)

8. CENTRE FOR BIOTECHNOLOGY

1. H.K. Das
2. Kunal B. Roy

1. Rakesh Bhatnagar
2. Devaki Bhaya (Ms.)
3. Santosh Kar
4. Uttam K. Pati

1. Rajiv Bhat
2. S.S. Maitra
3. K.J. Mukherjee

9. UNIVERSITY SCIENCE INSTRUMENTATION CENTRE

S.K. Sharma

PROFESSOR EMERITUS

School of International Studies

1. **Professor M.S. Rajan**

School of Languages

2. **Professor K.J. Mahale**
3. **Professor Namwar Singh**
4. **Professor Mohd. Hasan**

School of Life Sciences

5. **Professor P.N. Srivastava**

School of Social Sciences

6. **Professor S. Gopal**
7. **Dr. D. Banerjee**
8. **Professor Romila Thapar**
9. **Professor Bipan Chandra**
10. **Professor G.S. Bhalla**
11. **Professor Tapas Majumdar**

LIST OF FACULTY MEMBERS APPOINTED DURING 13.5.1994 TO 12.5.1995

PROFESSORS

1.	Professor Surjit Man Singh Sr. Fellow, CIPOD/SIS	20.01.1995
2.	Professor M. Alam, CAAL/SL	12.05.1995
3.	Professor D.K. Banerjee, SES	13.01.1995
4.	Professor Jitendra Behari, SES	13.01.1995
5.	Professor J.S. Gandhi, CSSS/SSS	13.01.1995
6.	Professor Dipankar Gupta, CSSS/SSS	13.01.1995
7.	Professor D.N. Rao, CESP/SSS	07.02.1995
8.	Professor S.F. Ratnagar, CHS/SSS	15.07.1994
9.	Professor Dilbagh Singh, CHS/SSS	06.06.1994
10.	Professor C.N. Venugopal, CSSS/SSS	13.01.1995

ASSOCIATE PROFESSORS

1.	Dr. B.K. Khadria, ZHCES/SSS	17.01.1995
2.	Dr. A.K. Pasha, SIS	12.05.1995
3.	Dr. B.C. Tripathi, SLS	11.04.1995

ASSISTANT PROFESSORS

1.	Dr. Alka Acharya, CEAS/SIS	16.01.1995
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LIST OF FACULTY MEMBERS WHO HAVE BEEN RETIRED DURING 13.5.1994 TO 12.5.1995

School of International Studies

1. Professor S.C. Gangal

School of Languages

2. Professor Savitri Chandra (Ms.)

School of Social Sciences

3. Shri Ishwari Prasad, Associate Professor

**LIST OF FACULTY MEMBERS WHO HAVE BEEN RE-EMPLOYED
OR WHOSE TERM OF RE-EMPLOYMENT HAS BEEN EXTENDED
FROM 13.5.1994 TO 12.5.1995**

S.No	Name of Faculty	Designation	Department	Date of appointment
1.	Jaweed Ashraf	Professor	SLS	01.10.1994
2.	Satish Saberwal	Professor	CHS/SSS	01.10.1994
3.	B. Padmanabhamurthy	Professor	SES	01.01.1995
4.	Dr. Rita D. Sil	Assoc. Prof.	CFS/SL	01.12.1994
5.	H.S. Chopra	Professor	SIS	18.02.1995
6.	Sumitra Chisti	Professor	SIS	15.03.1995
7.	Aijazuddin Ahmed	Professor	SSS	12.01.1995
8.	Prabha Ramalingaswamy	Assoc.Prof.	SSS	01.04.1995
9.	K.R. Singh	Professor	SIS	06.05.1995
10.	M.K. Premi	Professor	CSRD/SSS	26.09.1994

**LIST OF FACULTY MEMBERS WHO HAVE RESIGNED
DURING 13.5.1994 TO 12.5.1995**

S.No	Name	Designation	Dept.	Date of Resignation
1.	Devaki Bhaya (Ms.)	Assoc. Prof.	CBT	12.05.1995
2.	Pratul Dubish	Assoc. Prof.	SC&SS	31.03.1995
3.	Col. C.P.C. Nath	Asstt. Prof.	SC&SS	01.03.1995

STUDY LEAVE/SABBATICAL LEAVE/EXTRA-ORDINARY LEAVE SANCTIONED TO THE FACULTY MEMBERS DURING 13.5.1994 TO 12.5.1995

1. Dr. Sanjay Puri, Associate Professor, SPS. Sabbatical Leave from 22.7.1994 to 2.12.1994 with permission to prefix vacation from 13.5.1994 to 21.7.1994. To do research work on Topological Defects.
2. Dr. Sankar Basu. Associate Professor, CRS/SL. Sabbatical Leave for a period of 2 semesters w.e.f. 23.7.94 to 12.5.95 (with permission to suffix summer vacation till 21.7.95). for revision of book on "Culture and Civilisation of the USSR",
3. Professor Karmeshu, SC&SS. Sabbatical Leave w.e.f. 1.8.94 to 21.7.95. To do research work on Stochastic Models of innovation defusion.
4. Dr.Devaki Bhaya, Associate Professor, CBT. EOL from 3.12.1993 to 21.7.1994. To enable her to do research on Nutrient Stress in Cyanobacteria.
5. Dr.Purshottam Agarwal, Asstt. Professor, CIL/SL. Sabbatical Leave for a period of one semester from 23.7.1994 to 5.12.1994 (with permission to suffix winter vacation till 5.1.1995). To enable him to do research work on "Bhakti Sensibility: An Interface of poetry and Philosophy.
6. Dr.A.K.Bhattacharya, Associate Professor, SES. Sabbatical Leave from 23.7.94 to 12.5.1995 with permission to suffix summer vacation from 13.5.1995 to 21.7.1995. To complete research work on Environmental aspects of Sewage applications on Delhi Soil.
7. Dr.S.K.Bose, Asstt. Professor, SC&SS. Study Leave from 1.6.94 to 31.10.1995. To avail German Academic Exchange Service (DAAD) Fellowship.
8. Dr.Geetha B.Singh, Asstt.Professor, ZHCES/SSS. Sabbatical Leave for a period of two semesters w.e.f. 26.7.94 to 12.5.95 with permission to suffix vacations from 13.5.1995 to 21.7.1995. To work on a monograph on "Equity in Education: The experience of Dalits in India".
9. Dr.K.D.Kapur, Associate Professor, CSDIL&E/SIS. Sabbatical Leave from 7.1.1995 to 5.12.1995 (instead of 23.7.94 to 12.5.95 already sanctioned) with permission to suffix vacation upto 5.1.1996. To complete research project "The Doctrine of Defensive Defence: Post-Cold War Stragetig Thinking.
10. Dr.Gulshan Dietl, Associate Professor, CWAAS/SIS. EOL from 1.9.1993 to 19.5.1994 (instead of 1.9.93 to 30.6.94). To avail of Ful-Brights Scholarship awarded by the council for International Exchange of Scholars at Washington.

11. Prof.Y.C.Bhatnagar, CRS/SL. Study Leave for a period of one year w.e.f. 6.1.95 to 5.1.1996. To undertake major research project awarded by the UGC on "Methods of Russian Language Teaching (RLT) in Non-Native Environment and to write a monograph on this subject.
12. Shri K.Madavane, Associate Professor, CFS/SL, i) EOL for a period of one year from 26.7.94 to 25.7.95. To accept the assinment of Visiting Professor in Montreal University, Canada, ii) Study Leave from 26.7.95 to 12.5.96 with permission to suffix vacation till 21.7.96. To publish a Book entitled "Image of Death in French Absmol Theatre and to do research on "French Canadian Theatre".
13. Professor R.S.Bagga, CRS/SL. Sabbatical Leave for a period of one semester w.e.f. 7.1.95 to 12.5.95 with permission to suffix vacation till 21.7.95, to prepare teaching material for course No.307 entitled "Modern Russian Language; Phonetics"
14. Dr.R.P.Jain, Associate Professor, CGS/SL. Sabbatical Leave for a period of two semesters w.e.f. 23.7.94 to 12.5.95 with permission to suffix vacation till 21.7.95. To undertake research work on a project entitled "The Role of Music in the Plays of Bertolt Brecht".
15. Dr.Ania Loomba, Associate Professor, SL. Extension of EOL from 22.7.94 to 21.7.95. To accept the Mellon Fellowship at the Stanford University, USA.
16. Dr.S.P.Jain, Associate Professor, CGS/SL. Sabbatical Leave for a period of two semester from 7.1.1994 to 5.12.1994 with permission to suffix vacation till 5.1.1995, to work on a research project and write a text book on German-Hindi Translation/Grammer.
17. Dr.S.Raju, Associate Professor, CSRD/SSS. Sabbatical Leave for a period of one semester from 23.7.94 (instead of 6.1.1993 to 2.12.1993 already sanctioned) with permission to suffix vacation upto 5.1.1995. To work on Labour Force Participation.
18. Professor Balveer Arora, CPS/SSS. Sabbatical Leave for a period of two semesters from 23.7.94 to 12.5.95 with permission to suffix vacation till 21.7.1995. To participate in the (a) "Diversity and Democracy in India and America" at Rajiv Gandhi Centre for Contemporary Studies, New Delhi and University of California, Barkaley, (b) "All India services and Federalism" at the Centre for Policy Research, New Delhi & University of Pennsylvania, Philadelphia.
19. Professor Atiya Habib Kidwai, CSRD/SSS. Sabbatical Leave from 9.1.95 to 5.12.95 (instead of 23.7.94 to 12.5.95) with permission to suffix winter vacation from 6.12.95 to 5.1.96. To complete the ICHR Project and a Manuscript on "Port Cities in the Maritime World of South Asia.

20. Dr.S.K.Sahu, Sr.Fellow, CSM&CH/SSS. Sabbatical Leave from 15.7.94 to 30.10.94. To attend a course of HIV/AIDS at the Community Health Research and Training Unit, Western Australian University.
21. Professor Sunnanda Sen, CES&P/SSS. Extension of EOL for one semester more i.e. from 22.7.94 to 5.1.95 in continuation to EOL from 7.1.92 to 21.7.94 already sanctioned. To continue to complete research work and also to accept Lecturership offered by the Joan Robinson Memorial Trust at Cambridge.
22. Shri H.S.Prabhakar, Asstt.Professor, CEAS/SIS. Sabbatical Leave from 9.1.95 to 12.5.95 with permission to suffix vacation. To accept Faculty Development Fellowship.
23. Dr.Mohsin Osmani, Asstt.Professor, CWAAS/SIS. EOL for one year w.e.f. 5.9.94. To accept the offer of Reader in Delhi University.
24. Shri P.A. George, Asstt.Professor, CEAL/SL. Extension. of Study Leave for one more semester from 6.1.95 to 12.5.95. To do Ph.D.
25. Ms.N.Kamala, Asstt.Professor, CFS/SL. Study Leave for the period from 23.7.95 to 21.7.95 subject to the joining of Centre by Ms.Kiran Chaudhury & Ms.Vijayalakshmi Rao by 22.7.1995. To do Ph.D.
26. Shri Abhijit Karkun, Asstt.Professor, CFS/SL. Study Leave for the period from 23.7.95 to 21.7.97, subject to the joining of the Centre by Ms.Kiran Chaudhury and Ms.Vijayalakshmi Rao by 22.7.1995. To do Ph.D.
27. Professor, S.Bhattacharya, CHS/SSS. Extension of EOL for a period of 3 months w.e.f. 7.11.94 to 6.2.1995. To enable him to continue with the assignment of Vice-Chancellor.
28. Ms.Jayati Ghosh, Associate Professor, CES&P/SSS. i) EOL 16.1.95 to 15.5.95, to take up visiting appointment; ii) Sabbatical Leave w.e.f. 25.7.95 to 5.12.95 (with permission to suffix vacation), to undertake research work on the changed nature of International capital markets & cross border, financial flows and their implication for domestic economic policy in developing countries.
29. Dr.Abhijit Sen, Associate Professor, CES&P/SSS. Sabbatical Leave w.e.f. 18.1.95 to 5.1.96. To undertake research.
30. Professor Aswini K.Ray, CPS/SSS. Sabbatical Leave w.e.f. 23.7.95 to 12.5.96 (with permission to suffix vacation). To undertake programme of research on "A monograph on citizenship in a Comparative Perspective".
31. Dr.R.K.Sharma, Associate Professor, CSRD/SSS. Sabbatical Leave w.e.f. 25.7.95 to 12.5.96 (with permission to suffix vacation. To undertake research on "Government Intervention in Food Security at the Micro-Level".

32. Professor S.C.Ghosh, ZHCES/SSS. Sabbatical leave w.e.f. 24.7.95 to 4.12.95 (with permission to prefix summer vacation). To complete work on "History of Education in India".
33. Dr.Gurpreet Mahajan, Asstt.Professor, CPS/SSS. Sabbatical Leave 25.7.95 to 12.5.96 (with permission to suffix summer vacation). To undertake research work on "Participation and Democratic Process".
34. Dr.S.K.Chandra, Associate Professor, CSRD/SSS. Sabbatical Leave w.e.f. 25.7.95 to 12.5.96 (with permission to suffix vacation from 13.5.96 to 21.7.96). To undertake research programme in "Regional Development of Gondwana Sedimentation in India".
35. Dr.(Mrs.) Sudha Mahajan Cowsic, Associate Professor, SLS. Extension of EOL from 4.8.95 to 3.8.96. To continue the assignment of Visiting Fellowship.
36. Dr.R.S.Gupta, Associate Professor, CLE/SL. Sabbatical Leave for a period of 2 semesters w.e.f. 7.1.95 to 5.12.95 (with permission to suffix winter vacation. To undertake research work on "Language Planning and Language Equality: The Indian Context".
37. Dr.S.B.Sasalatti, Associate Professor, CGS/SL. Sabbatical Leave for the period from 26.7.95 to 12.5.95 (with permission to suffix summer vacation). To undertake research on "Individual Multilingualism and Foreign Language Acquisition with Special reference to German".
38. Dr.S.A.Rahman, Associate Professor, CAAL/SL. EOL for a period of 2 years w.e.f. 13.5.95. Placed at the disposal of ICCR, New Delhi, to serve as Director of Maulana Azad Centre for Culture.
39. Professor H.C.Pande, CRS/SL. Sabbatical Leave for the period from 25.7.95 to 12.5.96 (with permission to suffix summer vacation). To work on the course material "Contrastive Grammer (M.Phil.) Course.
40. Dr.Nasar Shakeel Romi, Asstt.Professor, CRS/SL. Sabbatical Leave for the period from 24.7.95 to 11.5.96 (with permission to prefix summer vacation from 13.5.95 to 23.7.95). For publication of a series of handbooks of the 20th Century Russian Literature.
41. Dr.S.K.Sareen, Associate Professor, CLE/SL. Sabbatical Leave for a period of 2 semesters w.e.f. 7.1.1996 to 5.12.1996 (with permission to suffix winter vacation). To undertake research work on "Anthology of Australian Poetry" Subject to the joining of Centre by Dr.Ania Loomba by 24.7.95 or Dr.R.S.Gupta by 6.1.96.

AMENDMENTS/ADDITIONS MADE TO THE EXISTING ORDINANCES, RULES, ETC., AND NEW ORDINANCES, RULES, ETC., MADE.

(13.5.1994 to 12.5.1995).

AMENDMENTS TO ORDINANCES

1. Amendment of Clause 6(2) of the Ordinance relating to creation of Schools/Centres of Studies, Special Centres and Specialised Laboratories.
2. Amendments of Certain Clauses (2.6, 3.10(c), 3.11(xiii), 3.12(f), 3.13, 3.13(a), 3.14, 3.14(a), 3.15(a), 3.15(r) of the Ordinance relating to terms and conditions of appointment and duties of Provosts/Senior Wardens/Wardens appointed for the Hostels maintained by the University.

AMENDMENTS TO RULES/REGULATIONS

1. Amendments to Rules 1,2 and 3 of the Rules relating to allotment of houses to Post Doctoral Fellows/Research Associates/ Sr.Research Associates/Junior Information Scientist.
2. Amendments of certain Clauses (1.8, 3.7, 4.1, 5.1, 7.2, 8.2, 10.2, 12.6, 12.8, 13.7(3), 13.10(1), 13.11(1), 13.12(1), 13.12(18) of the Hostel Manual.
3. Amendment of Rules 12.2 of the Leave Rules relating to grant of Maternity Leave to non-teaching staff.
4. Revision of rates for non-duty journeys in respect of University Vehicles.
5. Amendment of rule 48(6) of the rules relating to recruitment to the non-teaching staff.
6. Amendment of Rule 2.8 of the rules relating to Allotment of Houses.

NEW ORDINANCES

1. Ordinance relating to the International Centre for Genetic Engineering and Biotechnology, New Delhi.
2. Ordinance relating to the Nuclear Science Centre, New Delhi.
3. Ordinance governing the award of Master of Technology (M.Tech.) degree in the Defence Engineering Institutions viz. College of Military Engineering, Pune, Military College of Telecommunication Engineering, Mhow, Naval College of Engineering, Lonawala; and Military College of Electronics and Mechanical Engineering, Secunderabad.

FOREIGN NATIONALS WHO JOINED THE UNSIVERSITY UNDER VARIOUS CULTURAL EXCHANGE PROGRAMME

(13.5.1994 to 12.5.1995)

S.No	Name	Appointed under	Date of Appointment
1.	Dr.Carlos Miguel Batao Alves, Asstt.Professor, Centre for Spanish Studies, School of Languages.	Indo-Portuguese CEP.	1.8.1994 for a period of one year
2.	Prof.Haing Jung Suh, Associate Professor, Centre for East Asian Languages, School of Languages.	Indo-Korean CEP	1.8.1994
3.	Ms.Irene Santa Maria Garcia, Assistant professor, Centre for Spanish Studies School of Languages.	Indo-Spanish CEP	26.10.1994

APPENDIX-IX

MEMBERS OF THE UNIVERSITY COURT**(13.5.1994 to 12.5.1995)**

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|--|---|
| 1. Shri P.N.Haksar, Chancellor & Chairman | 38. Shri B.N.Rao |
| 2. Professor Yoginder K.Alagh, Vice-Chancellor | 39. Professor B. Vivekanandan |
| 3. Professor Asis Datta, Rector | 40. Professor V.S.Mani |
| 4. Professor Kuldeep Mathur - upto 3.8.1994 | 41. Professor K. V.Kesavan |
| 5. Professor M.V. Pylee w.e.f. 14.11.1994 | 42. Dr.K.S.Jawatkar |
| 6. Professor Irfan Habib upto 4.10.1994 | 43. Professor R.R.Sharma |
| 7. Professor V.A. Pai Panandikar w.e.f.14.11.1994 | 44. Professor Kalim Bahadur upto 23.4.1995 |
| 8. Shri D.Bandopadhyaya upto 4.10.1994 | 45. Professor Baladas Ghoshal w.e.f. 24.4.1995 |
| 9. Dr.V.N.Upadaya, upto 4.10.1994 | 46. Professor Mohd. Sadiq upto 6.7.1995 |
| 10. Professor K.B.Powar w.e.f. 14.11.1994 | 47. Dr.Gulshan Diel w.e.f. 7.7.1994 |
| 11. Professor N.C.Nigam upto 4.10.1994 | 48. Professor Anjan Mukherji upto 2.9.1994 |
| 12. Professor V.C.Kulandai Swamy w.e.f.14.11.1994 | 49. Professor Prabhat Patnaik w.e.f. 3.9.1994 |
| 13. Professor R.P.Kaushik, upto 14.7.1994 | 50. Professor Satish Saberwal upto 9.9.1994 |
| 14. Professor Sudhir Kumar Sopory w.e.f. 28.9.1994 | 51. Professor B.D.Chattopadhyaya w.e.f. 10.9.1994 |
| 15. Professor R.K.Kale upto 14.7.1994 | 52. Professor A.K.Ray upto 27.3.1995 |
| 16. Dr.Tulsi Ram w.e.f. 28.9.1994 | 53. Dr.Kiran Saxena w.e.f. 28.3.1995 |
| 17. Ms.Minu Bakshi upto 14.7.1994 | 54. Dr.A.Vasanta |
| 18. Dr.Niraja Gopal Jayal w.e.f. 28.9.1994 | 55. Professor Imrana Qadeer |
| 19. Professor V.S.Asthana | 56. Professor K.L.Sharma |
| 20. Professor M.H.Qureshi | 57. Professor S.C.Ghosh upto 29.1.1995 |
| 21. Shri Moti Ram - Acting Registrar and
Member Secretary upto 27.2.1995 | 58. Professor Sushila Singhal w.e.f. 30.1.1995 |
| 22. Mrs.Kusum Avasthy Gupta - Registrar and
Member Secretary w.e.f. 28.2.1995 | 59. Professor G.K.Chadha upto 12.4.1995 |
| 23. Shri N.T.Srinivasan | 60. Professor Atiya Habib Kidwai w.e.f. 13.4.1995 |
| 24. Dr.K.K.Trivedi upto 14.2.1995 | 61. Professor A.W.Azhar |
| 25. Dr.M.D.Vemuri w.e.f. 15.2.1995 | 62. Professor Anil Bhatti |
| 26. Professor Sipra Guha Mukherjee upto 3.1.1995 | 63. Professor Y.C.Bhatnagar upto 26.12.1994 |
| 27. Professor Najma Zaheer Baquer w.e.f. 4.1.1995 | 64. Professor K.P.Sankaran Unny w.e.f. 27.12.1994 |
| 28. Professor Ashok Guha | 65. Dr.S.P.Ganguly |
| 29. Professor K.N.Panikkar | 66. Dr.Shantha Ramakrishna upto 12.3.1995 |
| 30. Professor S.R.Kidwai | 67. Dr.C.Krishnamurthy w.e.f. 13.3.1995 |
| 31. Professor Anuradha M.Kunta | 68. Professor K.N.Singh upto 30.6.1994 |
| 32. Professor V.Subramanian upto 15.8.1994 | 69. Professor Manager Pandey w.e.f. 1.7.1994 |
| 33. Professor P.S.Ramakrishnan w.e.f. 16.8.1994 | 70. Professor H.S.Gill upto 31.1.1995 |
| 34. Professor K.K.Bharadwaj | 71. Dr.Anvita Abbi w.e.f. 1.2.1995 |
| 35. Professor S.K.Dattagupta | 72. Dr.R.Tomar |
| | 73. Dr.Rakesh Bhatnagar |
| | 74. Professor Rahmatullah Khan upto 30.6.1994 |

75. Professor Zafar Imam w.e.f. 1.7.1994
76. Professor T.K.Oommen upto 8.2.1995
77. Professor R.K.Jain w.e.f. 9.2.1995
78. Professor A.Ramesha Rao, upto 3.1.1995
79. Professor B.Padmanabhamurthy upto 31.12.1994
80. Professor V.Rajamani w.e.f. 1.1.1995
81. Professor R.G.Gupta
82. Professor R.Ramaswamy
83. Professor Kunal B.Roy
84. Dr.P.K.Pant
85. Professor M.H.Siddiqi
86. Dr.Varyam Singh
87. Dr.R.N.K.Bamezai
88. Professor J.Behari upto 13.1.1995
89. Dr.V.K.Jain w.e.f. 14.1.1995
90. Dr.C.P.Katti upto 8.2.1995
91. Dr.Subhash Bhalla w.e.f. 9.2.1995
92. Dr.H.B.Bohidar upto 14.9.1994
93. Dr.Sanjay Puri w.e.f. 15.9.1994
94. Dr.Santosh Kar upto 18.11.1994
95. Dr.Devki Bhaya w.e.f. 19.11.1994
96. Shri V.K.H.Jambholkar upto 12.4.1995
97. Shri H.S.Prabhakar w.e.f. 13.4.1995
98. Dr.K.R.Nayar
99. Dr.Anil K. Dhingra
100. Dr.P.C.Rath
101. Shri Sanjay Madan upto 21.9.1994
102. Shri C.P.C. Nath 22.9.1994 to 1.3.1995
103. Ms.Sonajharia Minz w.e.f. 2.3.1995
104. Dr.S.Mukherjee
105. Dr.Roopa Manjari Ghosh
106. Shri S.S.Maitra upto 14.9.1994
107. Dr.K.G.Mukherjee w.e.f. 15.9.1994
108. Commandant, National Defence Academy, Pune
109. Commander, Army Cadet College, Dehradun
110. Director, Centre for Development Studies,
Trivandrum
111. Director, Bhabha Atomic Research Centre,
Bombay
112. Commandant, Military College of Electronics and
Mechanical Engineering, Secunderabad
113. Commandant, Military College of
Telecommunication Engineering, Mhow
114. Director, Centre for Cellular &
Molecular Biology, Hyderabad
115. Commandant, College of Military
Engineering, Pune
116. Principal, Naval College of
Engineering, Lonawala
117. Director, National Institute of
Immunology, New Delhi
118. Director, Raman Research Institute, Bangalore
119. Shri Anantarao Deshmukh, M.P. upto 28.11.1994
120. Professor K.V.Gowda, M.P. w.e.f. 6.2.1995
121. Shri Tarachand Khandelwal, M.P.
upto 29.11.1994
122. Smt.Girija Devi, M.P. w.e.f. 6.2.1995
123. Shri Sajan Kumar, M.P. upto 28.11.1994
124. Dr.B.G.Jawali, M.P. w.e.f. 6.2.1995
125. Shri K.M.Mathew, M.P. upto 28.11.1994
126. Professor N.Kamson, M.P. w.e.f. 6.2.1995
127. Professor Rita Verma upto 28.11.1994
128. Prof.(Mrs.)Savithri Lakshmanan, M.P.
w.e.f. 6.2.1995
129. Professor Sripal Singh Yadav, M.P.
upto 28.11.1994
130. Professor Prem Dhumal, M.P. w.e.f. 6.2.1995
131. Shri S.S.Ahluwalia, M.P.
132. Shri Digvijay Singh, M.P.
133. Shri Mohd.Salim, M.P.
134. Dr.Shrikant Ramachandran Jichkar, M.P.
135. Dr.M.S.Valiathan
136. Professor Premrata Sharma

MEMBERS OF THE EXECUTIVE COUNCIL

(13.5.1994 to 12.5.1995)

1. Professor Yoginder K. Alagh, Vice-Chancellor - Chairman
2. Professor Kuldeep Mathur upto 2.8.1994
3. Professor Asis Datta, Rector w.e.f. 3.8.1994
4. Professor V. Asthana
5. Professor Ashok Guha
6. Professor S.R. Kidwai
7. Professor V. Subramanian upto 15.8.1994
8. Professor K.K. Bharadwaj w.e.f. 16.8.1994
9. Professor Sipra Guha Mukherjee upto 3.1.1995
10. Professor K.N. Panikkar w.e.f. 4.1.1995
11. Professor S.K. Dattagupta
12. Professor Irfan Habib upto 4.10.1994
13. Professor M.V. Pylee w.e.f. 14.11.1994
14. Shri D. Bandopadhyaya upto 4.10.1994
15. Professor V.A. Pai Panandikar w.e.f. 14.11.1994
16. Dr. V.N. Upadhyaya upto 4.10.1994
17. Professor K.B. Powar w.e.f. 14.11.1994
18. Professor N.C. Nigam upto 4.10.1994
19. Professor V.C. Kulandai Swamy w.e.f. 14.11.1994
20. Professor R.P. Kaushik upto 14.7.1994
21. Professor Sudhir Kumar Sopory w.e.f. 28.9.1994
22. Dr. R.K. Kale upto 14.7.1994
23. Dr. Tulsi Ram w.e.f. 28.9.1994
24. Ms. Minu Bakshi upto 14.7.1994
25. Dr. Niraja Gopal Jayal w.e.f. 28.9.1994

MEMBERS OF THE FINANCE COMMITTEE

(13.5.1994 to 12.5.1995)

1.	Professor Y.K.Alagh	-	Vice-Chancellor
2.	Professor M.V.Mathur	-	Member
3.	Shri N.J.Javeri	-	Member
4.	Shri Priya Darshi Thakur	-	Member
5.	Shri S.C.Mittal	-	Member
6.	Shri Inderjit Khanna	-	Member
7.	Ms.S.Chauhan	-	Member
8.	Shri N.T.Srinivasan	-	Member Secretary

MEMBERS OF THE ACADEMIC COUNCIL (13.5.1994 to 12.5.1995)

- | | |
|--|--|
| 1. Professor Yoginder K. Alagh, Vice-Chancellor | 31. Professor A.K. Ray upto 27.3.1995 |
| 2. Professor Asis Datta, Rector | 32. Dr. Kiran Saxena w.e.f. 28.3.1995 |
| 3. Professor Kuldeep Mathur, Rector upto 2.8.1994 | 33. Dr. A. Vasanta |
| 4. Professor Sipra Guha Mukherjee upto 3.1.1995 | 34. Professor Imrana Qadeer |
| 5. Professor Najma Zaheer Baquer w.e.f. 4.1.1995 | 35. Professor K.L. Sharma |
| 6. Professor Ashok Guha | 36. Professor S.C. Ghosh upto 29.1.1995 |
| 7. Professor K.N. Panikkar | 37. Professor Sushila Singhal w.e.f. 30.1.1995 |
| 8. Professor S.R. Kidwai | 38. Professor G.K. Chadha upto 12.4.1995 |
| 9. Professor Anuradha M. Kunte | 39. Professor Atiya Habib Kidwai w.e.f. 13.4.1995 |
| 10. Professor V. Subramanian upto 15.8.1994 | 40. Professor A.W. Azhar |
| 11. Professor P.S. Ramakrishnan | 41. Professor Anil Bhatti |
| 12. Professor K.K. Bharadwaj | 42. Professor Y.C. Bhatnagar upto 26.12.1994 |
| 13. Professor S.K. Dattagupta | 43. Professor K.P. Sankaran Unny w.e.f. 27.12.1994 |
| 14. Professor V. Asthana | 44. Dr. S.P. Ganguly |
| 15. Professor M.H. Qureshi | 45. Dr. Shantha Ramakrishna upto 12.3.1995 |
| 16. Professor Harjit Singh | 46. Dr. C. Krishnamurthy w.e.f. 13.3.1995 |
| 17. Shri B.N. Rao | 47. Professor K.N. Singh upto 30.6.1994 |
| 18. Professor B. Vivekanandan | 48. Professor Manager Pandey w.e.f. 1.7.1994 |
| 19. Professor V.S. Mani | 49. Professor H.S. Gill upto 31.1.1995 |
| 20. Professor K.V. Kesavan | 50. Dr. Anvita Abbi w.e.f. 1.2.1995 |
| 21. Dr. K.S. Jawatkar | 51. Dr. R. Tomar |
| 22. Professor R.R. Sharma | 52. Dr. Rakesh Bhatnagar |
| 23. Professor Kalim Bahadur upto 23.4.1995 | 53. Professor Rahmatullah Khan upto 30.6.1994 |
| 24. Professor Baladas Ghoshal w.e.f. 24.4.1995 | 54. Professor Zafar Imam w.e.f. 1.7.1994 |
| 25. Professor Mohammad Sadiq upto 6.7.1994 | 55. Professor T.K. Oommen upto 8.2.1995 |
| 26. Dr. Gulshan Dietl w.e.f. 7.7.1994 | 56. Professor R.K. Jain w.e.f. 9.2.1995 |
| 27. Professor Anjan Mukherji upto 2.9.1994 | 57. Professor A. Ramesha Rao upto 3.1.1995 |
| 28. Professor Prabhat Patnaik w.e.f. 3.9.1994 | 58. Professor B. Padmanabhamurthy upto 31.12.1994 |
| 29. Professor Satish Saberwal upto 9.9.1994 | 59. Professor V. Rajamani w.e.f. 1.1.1995 |
| 30. Professor B.D. Chattopadhyaya w.e.f. 10.9.1994 | 60. Professor R.G. Gupta |

- | | | | |
|-----|---------------------------------------|------|---|
| 61. | Professor R. Ramawamy | 91. | Dr.J.P.Mittal w.e.f. 24.2.1995 |
| 62. | Professor Kunal B.Roy | 92. | Dr.Chandrina Shaha |
| 63. | Dr.P.K.Pant | 93. | Dr.Dipankar D.Chatterjee |
| 64. | Professor M.H.Siddiqi | 94. | Brig. M.S.R.Rao upto 9.5.1995 |
| 65. | Dr.Varyam Singh | 95. | Brig. B.K.Kataria upto Jan.1995 |
| 66. | Dr.R.N.K. Bamezai | 96. | Brig. S.Nambirajan w.e.f. 10.2.1995 |
| 67. | Professor J.Behari upto 13.1.1995 | 97. | Dr.V.P.Singh |
| 68. | Dr.V.K.Jain w.e.f. 14.1.1995 | 98. | Major General T.M.John upto August 1994. |
| 69. | Dr.C.P.Katti upto 8.2.1995 | 99. | Brig.S.G.Vombatkere w.e.f. 26.8.1994 to 14.3.1995 |
| 70. | Dr.Subhash Bhalla w.e.f. 9.2.1995 | 100. | Professor Rajaram Nityananda |
| 71. | Dr.H.B.Bohidar upto 14.9.1994 | 101. | Professor Sisir Kumar Das w.e.f. 10.2.1995 |
| 72. | Dr.Sanjay Puri w.e.f. 15.9.1994 | 102. | Professor B.G.Mishra upto 3.12.1994 |
| 73. | Dr.Santosh Kar upto 18.11.1994 | 103. | Dr.Manju Sharma |
| 74. | Dr.Devki Bhaya w.e.f. 19.11.1994 | 104. | Professor V.Pandit |
| 75. | Shri V.K.H.Jambholkar upto 12.4.1995 | 105. | Professor S.K.Agrawala upto 23.2.1995 |
| 76. | Shri H.S.Prabhakar w.e.f. 13.4.1995 | 106. | Dr.V.R.Panchamukhi w.e.f. 24.2.1995 |
| 77. | Dr.K.R.Nayar | 107. | Professor R.K.Arora |
| 78. | Dr.Anil K. Dhingra | 108. | Professor V.V.Pathy upto 23.2.1995 |
| 79. | Dr.P.C.Rath | 109. | Professor S.K.Sinha w.e.f. 24.2.1995 |
| 80. | Shri Sanjay Madan upto 21.9.1994 | 110. | Professor E.S.Raj Gopal upto 23.2.1995 |
| 81. | Shri C.P.C.Nath 22.9.1994 to 1.3.1995 | 111. | Professor R.P.Saxena w.e.f. 24.2.1995 |
| 82. | Ms.Sonajharia Minz w.e.f. 2.3.1995 | | |
| 83. | Dr.S.Mukherjee | | |
| 84. | Dr.Roopamanjari Ghosh | | |
| 85. | Shri S.S.Maitra upto 14.9.1994 | | |
| 86. | Dr.K.G.Mukherjee w.e.f. 15.9.1994 | | |
| 87. | Dr.S.C.Joshi | | |
| 88. | Professor U.C.Joshi | | |
| 89. | Professor P.S.George | | |
| 90. | Dr.S.S.Kapoor upto 23.2.1995 | | |

STATISTICAL INFORMATION

Table 1

ADMISSION TO FULL-TIME PROGRAMMES OF STUDY (STATE-WISE)
(1994-95)

S.No.	State/ Territory	No. Joined			Total
		M.Phil./Ph.D./ MCH/M.Tech.	M.A./M.Sc./ M.C.A.	Under- Graduate	
1	2	3	4	5	6
1.	Andhra Pradesh	16	14	3	33
2.	Assam	8	5	1	14
3.	Arunachal Pradesh	-	3	1	4
4.	Bihar	117	113	89	319
5.	Chandigarh	2	3	-	5
6.	Delhi	79	80	43	202
7.	Gujarat	2	-	-	2
8.	Haryana	17	11	5	33
9.	Himachal Pradesh	3	5	1	9
10.	Jammu & Kashmir	2	1	1	4
11.	Kerala	10	12	4	26
12.	Karnataka	8	6	2	16
13.	Madhya Pradesh	4	8	1	13
14.	Maharashtra	6	9	7	22
15.	Manipur	10	11	3	24
16.	Meghalaya	3	3	-	6
17.	Mizoram	1	1	-	2
18.	Nagaland	3	5	-	8
19.	Orissa	52	34	3	89
20.	Pondicherry	1	-	-	1
21.	Punjab	8	3	1	12
22.	Rajasthan	9	7	3	19
23.	Sikkim	-	1	-	1
24.	Tamil Nadu	14	13	2	29
25.	Tripura	1	-	-	1
26.	Uttar Pradesh	74	71	28	173
27.	West Bengal	54	88	17	159
28.	Foreign Nationals	2	0	1	3
29.	Daman & Diu	1	-	-	1
Total :		507	507	216	1230

S.No.	School	M.Phil./Ph.D./NCH/M.Tech.	M.A./M.Sc./M.C.A.							Under-Graduate							Total					
			SC	ST	PH	O	T	SC	ST	PH	O	T	SC	ST	PH	O	T					
1.	Sc&SS		5	1	1	14	21	5	1	-	26	32	-	-	-	-	-	10	2	1	40	53
2.	SES		2	-	-	16	18	3	1	1	15	20	-	-	-	-	-	5	1	1	31	38
3.	SIS		20	9	1	118	148	8	3	2	47	60	-	-	-	-	-	28	12	3	165	208
4.	SL		8	6	1	70	85	4	5	1	93	103	31	14	3	168	216	43	25	5	331	404
5.	SLS		6	1	-	18	25	3	2	-	12	17	-	-	-	-	-	9	3	-	30	42
6.	SPS		-	1	-	13	14	2	1	-	7	10	-	-	-	-	-	2	2	-	20	24
7.	SSS		21	11	2	147	181	32	19	6	208	265	-	-	-	-	-	53	30	8	355	446
8.	CBT		1	-	-	14	15	-	-	-	-	-	-	-	-	-	-	1	-	-	14	15
Total			63	29	5	410	507	57	32	10	408	507	31	14	3	168	216	151	75	18	986	1230

SC= Scheduled Caste
ST= Scheduled Tribe
PH= Physically Handicapped
O= Others
T=Total

Table 3

**ADMISSION TO PART-TIME PROGRAMMES IN THE
SCHOOL OF LANGUAGES (1994-95)**

S.No. Languages	Number joined				
	SC	ST	Ph	Others	Total
A. <u>Certificate Of Proficiency (COP)</u>					
1. Bhasa Indonesia	2	-	-	14	16
2. Pustu	-	-	-	11	11
3. Mongolian	-	-	-	11	11
4. Korean	-	-	-	21	21
5. Urdu	3	-	-	18	21
6. Italian	14	2	-	74	90
7. Portuguese	7	1	1	69	78
Total	26	3	1	218	248
B. <u>Diploma of Proficiency (DOP)</u>					
1. Bhasa Indonesia	-	-	-	4	4
2. Pustu	-	-	-	2	2
3. Korean	-	-	-	2	2
4. Italian	-	-	-	14	14
5. Portuguese	-	-	-	7	7
Total	-	-	-	29	29
C. <u>Advanced Diploma of Proficiency (ADOP)</u>					
1. Urdu (Mass Media)	-	-	-	15	15
Total	-	-	-	15	15
<u>Total A, B & C</u>					
1. COP	26	3	1	218	248
2. DOP	-	-	-	29	29
3. ADOP	-	-	-	15	15
Total	26	3	1	262	292

Table 4

ADMISSION TO PART-TIME PROGRAMMES IN THE
SCHOOL OF LANGUAGES (1994-95)

S.No.	S t a t e	COP	DOP	ADOP	TOTAL
1	2	3	4	5	6
1.	Andhra Pradesh	1	-	-	1
2.	Assam	1	-	-	1
3.	Bihar	61	6	7	74
4.	Delhi	110	12	2	124
5.	Haryana	4	1	-	5
6.	Karnataka	1	-	-	1
7.	Kerala	2	1	-	3
8.	Madhya Pradesh	5	1	-	6
9.	Orissa	7	1	-	8
10.	Punjab	2	-	-	2
11.	Rajasthan	6	1	-	7
12.	Tamil Nadu	3	1	-	4
13.	Uttar Pradesh	33	4	6	43
14.	West Bengal	12	1	-	13
Total		248	29	15	292

Table 5

ADMISSION OF SC/ST CANDIDATES

S.No.	School	M.Phil./Ph.D./M.Tech./MCH			M.A./M.Sc./MCA			Under Graduate		
		Number Joined			Number Joined			Number Joined		
		SC	ST	Total	SC	ST	Total	SC	ST	Total
1.	SC&SS	5	1	6	5	1	6	-	-	-
2.	SES	2	-	2	3	1	4	-	-	-
3.	SIS	20	9	29	8	3	11	-	-	-
4.	SL	8	6	14	4	5	9	31	14	45
5.	SLS	6	1	7	3	2	5	-	-	-
6.	SPS	-	1	1	2	1	3	-	-	-
7.	SSS	21	11	32	32	19	51	-	-	-
8.	CBT	1	-	1	-	-	-	-	-	-
Total		63	29	92	57	32	89	31	14	45

Table 6

ADMISSION OF PHYSICALLY HANDICAPPED CANDIDATES

S.No.	School	M.Phil./Ph.D./ M.Tech./MCH	M.A./M.Sc./ MCA	Under Graduate
1.	SC&SS	1	-	-
2.	SES	-	1	-
3.	SIS	1	2	-
4.	SL	1	1	3
5.	SLS	-	-	-
6.	SPS	-	-	-
7.	SSS	2	6	-
8.	CBT	-	-	-
Total		5	10	3

Table 7

**INCOME GROUPS OF CANDIDATES ADMITTED TO VARIOUS FULL-TIME PROGRAMMES
FOR THE YEAR 1994-95**

S.No.	School	M.Phil./Ph.D./M.Tech.			M.A./M.Sc./MCA			Under Graduate			Total			Grand Total
		A	B	C	A	B	C	A	B	C	A	B	C	
1.	School of Computer & Systems Sc.	4	6	11	14	10	8	-	-	-	18	16	19	53
2.	School of Environmental Sciences	5	9	4	8	8	4	-	-	-	13	17	8	38
3.	School of International Studies	71	43	34	20	16	24	-	-	-	91	59	58	208
4.	School of Languages	58	11	16	48	25	30	81	66	69	187	102	115	404
5.	School of Life Sciences	8	8	9	7	7	3	-	-	-	15	15	12	42
6.	School of Physical Sciences	7	6	1	6	3	1	-	-	-	13	9	2	24
7.	School of Social Sciences	73	48	60	88	80	97	-	-	-	161	128	157	446
8.	Centre for Biotechnology	4	6	5	-	-	-	-	-	-	4	6	5	15
Total		230	137	140	191	149	167	81	66	69	502	352	376	1230

A = Income below Rs.3000/-per month B = Income from Rs.3001/- to Rs.6000/-per month C = Income from '6001/- and above per month

Table 8

ADMISSION TO FULL-TIME PROGRAMMES OF CANDIDATES FROM RURAL AND URBAN AREAS (1994-95)

S.No.	School	M.Phil./Ph.D./M.Tech.		M.A./M.Sc./MCA		Under Graduate		Total		Grand Total
		R	U	R	U	R	U	R	U	
1.	School of Computer & Systems Sc.	12	9	10	22	-	-	22	31	53
2.	School of Environmental Sciences	5	13	5	15	-	-	10	28	38
3.	School of International Studies	50	98	13	47	-	-	63	145	208
4.	School of Languages	47	38	46	57	66	150	159	245	404
5.	School of Life Sciences	8	17	4	13	-	-	12	30	42
6.	School of Physical Sciences	3	11	4	6	-	-	7	17	24
7.	School of Social Sciences	51	130	69	196	-	-	120	326	446
8.	Centre for Biotechnology	3	12	-	-	-	-	3	12	15
Total		179	328	151	356	66	150	396	834	1230

R = Rural Areas

U = Urban Areas

Table 9

SCHOOLING BACKGROUND OF CANDIDATES ADMITTED TO VARIOUS FULL-TIME PROGRAMMES (1994-95)

S.No.	School	M.Phil./Ph.D./M.Tech.		M.A./M.Sc./MCA		Under Graduate		Total		Grand Total
		PB	0	PB	0	PB	0	PB	0	
1.	School of Computer & Systems Sc.	12	9	15	17	-	-	27	26	53
2.	School of Environmental Sciences	5	13	4	16	-	-	9	29	38
3.	School of International Studies	39	109	29	31	-	-	68	140	208
4.	School of Languages	14	71	22	81	78	138	114	290	404
5.	School of Life Sciences	9	16	6	11	-	-	15	27	42
6.	School of Physical Sciences	3	11	2	8	-	-	5	19	24
7.	School of Social Sciences	47	134	95	170	-	-	142	304	446
8.	Centre for Biotechnology	8	7	-	-	-	-	8	7	15
Total		137	370	173	334	78	138	388	842	1230

PB = Those who studied in Public Schools

0 = Those who studied in other Schools

Table 10

BREAK-UP OF MALE/FEMALE CANDIDATES ADMITTED TO VARIOUS FULL-TIME PROGRAMMES (1994-95)

S.No.	School	M.Phil./Ph.D./M.Tech.		M.A./M.Sc./MCA		Under Graduate		Total		Grand Total
		Male	Female	Male	Female	Male	Female	Male	Female	
1.	School of Computer & Systems Sc.	18	3	24	8	-	-	42	11	53
2.	School of Environmental Sciences	10	8	12	8	-	-	22	16	38
3.	School of International Studies	97	51	32	28	-	-	129	79	208
4.	School of Languages	61	24	66	37	136	80	263	141	404
5.	School of Life Sciences	17	8	10	7	-	-	27	15	42
6.	School of Physical Sciences	13	1	8	2	-	-	21	3	24
7.	School of Social Sciences	103	78	149	116	-	-	252	194	446
8.	Centre for Biotechnology	6	9	-	-	-	-	6	9	15
Total		325	182	301	206	136	80	762	468	1230

Table 11

NUMBER OF GENERAL STUDENTS ON ROLL AS ON 1.9.1994

Sl. No.	Name of the School	M.Phil./Ph.D./MCH/M.Tech.	M.A./M.Sc./MCA/	A D O P	D O P	C O P	Total
		M W T	M W T	M W T	M W T	M W T	M W T
1.	School of Computer & Systems Sciences	35 8 43	44 14 58	- - -	- - -	- - -	79 22 101
2.	School of Environmental Sciences	54 15 69	17 5 22	- - -	- - -	- - -	71 20 91
3.	School of International Studies	381 183 564	36 49 85	- - -	- - -	- - -	417 232 649
4.	School of Languages	248 104 352	410 276 686	10 - 10	22 5 27	170 43 213	860 428 1288
5.	School of Life Sciences	48 42 90	8 11 19	- - -	- - -	- - -	56 53 109
6.	School of Physical Sciences	24 4 28	16 - 16	- - -	- - -	- - -	40 4 44
7.	School of Social Sciences	341 274 615	180 142 322	- - -	- - -	- - -	521 416 937
8.	Centre of Biotechnology	13 13 26	11 25 36	- - -	- - -	- - -	24 38 62
Total		1144 643 1787	722 522 1244	10 - 10	22 5 27	170 43 213	2068 1213 3281

Table 12

NUMBER OF SCHEDULED CASTES STUDENTS ON ROLL AS ON 1.9.1994

Sl. No.	Name of the School	M.Phil./Ph.D./MCH/M.Tech.			M.A./M.Sc./MCA			Total		
		M	W	T	M	W	T	M	W	T
1.	School of Computer & Systems Sciences	8	-	8	11	2	13	19	2	21
2.	School of Environmental Sciences	5	3	8	2	1	3	7	4	11
3.	School of International Studies	52	8	60	15	4	19	67	12	79
4.	School of Languages	12	4	16	40	8	48	52	12	64
5.	School of Life Sciences	7	3	10	3	1	4	10	4	14
6.	School of Physical Sciences	-	-	-	3	-	3	3	-	3
7.	School of Social Sciences	49	13	62	35	13	48	84	26	110
8.	Centre of Biotechnology	-	-	-	-	-	-	-	-	-
Total		133	31	164	109	29	138	242	60	302

Table 13

NUMBER OF SCHEDULED TRIBE STUDENTS ON ROLL AS ON 1.9.1994

Sl. No.	Name of the School	M.Phil./Ph.D./MCH/M.Tech.			M.A./M.Sc./MCA			Total		
		M	W	T	M	W	T	M	W	T
1.	School of Computer & Systems Sciences	3	-	3	2	2	4	5	2	7
2.	School of Environmental Sciences	-	-	-	1	-	1	1	-	1
3.	School of International Studies	14	16	30	6	2	8	20	18	38
4.	School of Languages	6	5	11	12	6	18	18	11	29
5.	School of Life Sciences	1	-	1	1	2	3	2	-	2
6.	School of Physical Sciences	1	-	1	2	-	2	1	-	1
7.	School of Social Sciences	..	10	26	19	12	31	35	22	57
8.	Centre of Biotechnology	..	-	-	-	-	-	-	-	-
Total		41	31	72	43	24	67	82	53	135

Table 14

NUMBER OF PHYSICALLY HANDICAPPED STUDENTS ON ROLL AS ON 1.9.1994

Sl. No.	Name of the School	M.Phil./Ph.D./MCH/M.Tech.			M.A./M.Sc./MCA/			Total		
		M	W	T	M	W	T	M	W	T
1.	School of Computer & Systems Sciences	2	-	2	2	-	2	4	-	4
2.	School of Environmental Sciences	2	-	2	1	-	1	3	-	3
3.	School of International Studies	4	1	5	2	-	2	6	1	7
4.	School of Languages	3	-	3	5	-	5	8	-	8
5.	School of Life Sciences	3	-	3	1	-	1	4	-	4
6.	School of Physical Sciences	-	-	-	-	-	-	-	-	-
7.	School of Social Sciences	3	1	4	8	1	9	11	2	13
8.	Centre of Biotechnology	1	-	1	-	1	1	1	1	2
Total		18	2	20	19	2	21	37	4	41

Table 15

NUMBER OF FOREIGN NATIONALS ON ROLL AS ON 1.9.1994

Sl. No.	Name of the School	M.Phil./Ph.D./MCH/M.Tech.			M.A./M.Sc./MCA/			Total		
		M	W	T	M	W	T	M	W	T
1.	School of Computer & Systems Sciences	1	1	2	1	-	1	2	1	3
2.	School of Environmental Sciences	2	1	3	1	1	2	3	2	5
3.	School of International Studies	13	2	15	3	6	9	16	8	24
4.	School of Languages	4	5	9	6	6	12	10	11	21
5.	School of Life Sciences	-	-	-	-	-	-	-	-	-
6.	School of Physical Sciences	1	-	1	-	-	-	1	-	1
7.	School of Social Sciences	13	5	18	15	9	24	28	14	42
8.	Centre of Biotechnology	-	-	-	1	-	1	1	-	1
Total		34	14	48	27	22	49	61	36	97

Table 16**ADMINISTRATION**

**Number of Faculty Positions - School/Centre and
Designation-wise (as on 12 May 1995)**

Total: 370

Sl. No.	School	Professor	Associate Professor	Assistant Professor
1.	School of Computer and Systems Sciences	8	5	5
2.	School of Environmental Sciences	11	7	4
3.	*School of International Studies	34	32	13
4.	School of Life Sciences	18	8	1
5.	*School of Languages	21	44	34
6.	School of Physical Sciences	4	4	5
7.	*School of Social Sciences	51	34	17
8.	Centre for Biotechnology	2	4	3
9.	University Science Instrumentation Centre	-	1	-
		149	139	82

*In respect of these Schools, Centrewise figures are given in the following tables.

Table 17

(a) Centres of the School of International Studies
(including M.A. Programme)

Total: 79

Sl. No.	Centre	Professor	Associate Professor	Assistant Professor
1.	Centre for American and West European Studies	4	3	2
2.	Centre for Studies in Diplomacy, International Law & Economics	7	6	2
3.	Centre for East Asian Studies	3	2	3
4.	Centre for International Politics, Organisation and Disarmament	4	4	1
5.	Centre for Soviet and East European Studies	4	6	1
6.	Centre for South, Central, South-East Asian and South- West Pacific Studies	6	7	1
7.	Centre for West Asian and African Studies	5	3	3
8.	M.A. Programme	1	1	-
	Total	34	32	13

Table 18**(b) Centres of the School of Languages****Total: 99**

Sl. No.	Centre	Professor	Associate Professor	Assistant Professor
1.	Centre for African and Asian Languages	3	6	3
2.	Centre for East Asian Languages	1	4	11
3.	Centre of Linguistics and English	2	7	2
4.	Centre of French Studies	1	7	5
5.	Centre of German Studies	2	6	3
6.	Centre of Indian Languages	4	4	2
7.	Centre of Russian Studies	5	8	4
8.	Centre of Spanish Studies	2	2	4
9.	Group of Philosophy	1	-	-
Total		21	44	34

Table 19**(c) Centres of the School of Social Sciences****Total: 102**

Sl. No.	Centre	Professor	Associate Professor	Assistant Professor
1.	Centre for Economic Studies and Planning	10	6	-
2.	Centre for Historical Studies	11	10	2
3.	Centre for Political Studies	5	6	4
4.	Centre for the Study of Regional Development	11	6	3
5.	Centre for Studies in Science Policy	1	1	-
6.	Centre of Social Medicine and Community Health	2	1	4
7.	Centre for the Study of Social Systems	8	3	3
8.	Zakir Husain Centre for Educational Studies	3	1	1
Total		51	34	17



